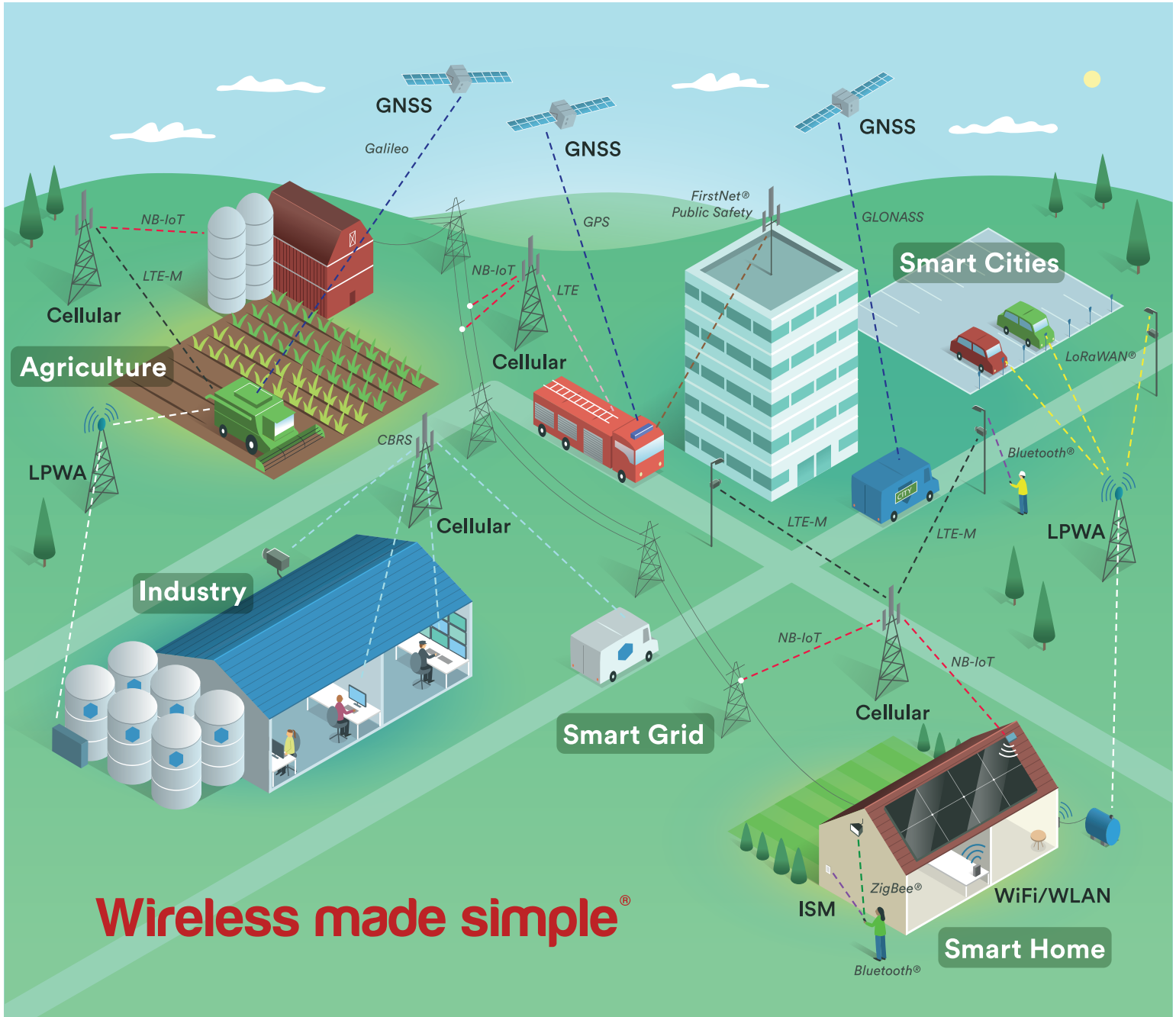


- Cellular · Sub-1 GHz LPWA & ISM · WiFi/WLAN · 2.4 GHz ISM · GNSS
- Other Antennas · Antenna Mounts



About Linx Technologies

Linx Technologies strives to Make Every Engineer a Hero in Record Time™ by minimizing the risks, delays, and technical challenges for design engineers to make products wireless and connect them to the Internet of Things (IoT). Linx manufactures wireless components including antennas, RF connectors and cables, RF modules, and remote controls. Linx relentlessly focuses on customer success. Every aspect of the Linx Technologies business, from products, documentation, support, and design experience, is specifically crafted to achieve Wireless Made Simple®.

Support and Services

In addition to antenna products, Linx offers design support and services:

- Complimentary design reviews
- Complimentary antenna-matching circuit design
- Full-custom and semi-custom antenna and cable assembly design and documentation

Brand Promise

If you choose to incorporate our components in your design, we relentlessly focus on ensuring your successful product launch.

How to Purchase

Linx sells directly and through a global network of distributors, catalog houses and representatives. See the full list of distributors at the end of this catalog or visit:

<https://linxtechnologies.com/distributors> and
<https://linxtechnologies.com/reps>

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Taiwan Design Center

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Linx Oregon Design Center



Linx Taiwan Design Center

Catalog Organization

Antenna product listings are grouped by application, mounting location and mounting type as defined below. Within each grouping, antennas are listed by part number and series, summary applications and characteristics, and termination type for ease of product selection. An asterisk (*) may be used in a part number to denote multiple antenna termination options or cable length options.

Application

Cellular

Linx cellular antennas support cellular and cellular IoT/cellular LPWA applications including:

- 5G, 4G, 3G, 2G
- LTE, UMTS, GSM
- LTE-M (Cat-M1)
- NB-IoT
- CBRS

Sub-1 GHz LPWA & ISM

Linx sub-1 GHz antennas for LPWA and ISM applications offer single-band options in multiple styles, mounting, and terminations at 433 MHz, 490 MHz, 868 MHz and 915 MHz in support of applications including:

- LoRaWAN®
- Sigfox®
- Weightless-P
- WiFi HaLow

WiFi/WLAN

Linx dual-band 2.4 GHz, 5 GHz and 6 GHz antenna solutions target wireless LAN (WiFi/WLAN) applications including:

- WiFi 6E
- WiFi 6
- WiFi 5
- WiFi 4
- U-NII 1-4, 5-8
- 802.11b/g/n/ac

2.4 GHz ISM

Linx 2.4 GHz single-band antennas provide a broad range of styles, mounting, termination and levels of performance to accommodate ISM applications including:

- Bluetooth®
- ZigBee®
- IEEE 802.11b/g
- IEEE 802.15.4

GNSS

Linx offers global navigation satellite system (GNSS) antennas for systems including:

- GPS
- Galileo
- GLONASS
- COMPASS/Beidou

Application

Other Antennas

Linx provides a number of antennas for other uses including medical applications, unlicensed applications and remote control applications including:

- 315 MHz
- 403 MHz
- 418 MHz
- 458 MHz
- 1.4 GHz

Antenna Mounts

Magnetic remote antenna mounts for Linx ELE Series screw base antennas.

Mounting Location

Internal/Embedded	Antenna mounts inside an enclosure
External	Antenna mounts on the outside of an enclosure
Remote	Antenna mounts away from an enclosure with cabled connection to the enclosure

Mounting Type

Connector	Connector (e.g. SMA) directly attaches antenna to mounting location
Panel Mount	Antenna mounts to enclosure panel/surface and signal connects to radio via cable
Surface Mount	Antenna mounts directly to printed circuit board with surface mount solder connection
Adhesive	Antenna mounts to mounting location using adhesive
Through Hole	Antenna mounts to printed circuit board with a through hole solder connection
Base Screw	Antenna screws onto threaded antenna base
PCB Screw	Antenna mounts to printed circuit board via screw and lug
Bracket	Antenna mounts to mounting location via bracket
Magnetic	Antenna mounts to mounting location via magnetic base

Contents

Cellular Antennas

Internal/Embedded				
Surface Mount				
CER Series	Overview	Application	Termination	Page
ANT-LTE-CER-T	Cellular Multiband Monopole Ceramic Chip	LTE, LTE-M (Cat-M1), NB-IoT	Solder Pad	22
Splatch® Series	Overview	Application	Termination	Page
ANT-LTE-SP610-T	Cellular Multiband Monopole Chip	LTE, LTE-M (Cat-M1), NB-IoT	Solder Pad	22
Adhesive Mount				
FPC Series	Overview	Application	Termination	Page
ANT-5GLFPC1-UFL-100	5G Cellular Sub-6 Multiband Dipole Flexible Patch	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	U.FL-Type	23
ANT-5GMFPC1-UFL-100	5G Cellular Sub-6 Multiband Dipole Flexible Patch	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	U.FL-Type	23
ANT-LPC-FPC-100	Cellular Multiband Dipole Flexible Patch	LTE, LTE-M (Cat-M1), NB-IoT, CBRS, LPWA, GNSS	U.FL-Type	23
ANT-LPL-FPC-100	Cellular Multiband Dipole Flexible Patch	LTE, LTE-M (Cat-M1), NB-IoT, CBRS, LPWA, GNSS	U.FL-Type	24
RPC Series	Overview	Application	Termination*	Page
ANT-LTE-RPC-*	Cellular Multiband Dipole Rigid Patch	LTE, LTE-M (Cat-M1), NB-IoT, LPWA, GNSS, WiFi 4	U.FL-Type, Unterminated	24
External				
Connector Mount				
CW Series	Overview	Application	Termination	Page
ANT-410-CW-QW-SMA	Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	410 MHz Straight Monopole Whip	SMA Plug	25
ANT-450-CW-QW-SMA	Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	450 MHz Straight Monopole Whip	SMA Plug	25
ANT-B5-CW-QW-SMA	5G/LTE Band 5 Straight Monopole Whip	5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	25
ANT-B8-CW-QW-SMA	5G/LTE Band 8 Straight Monopole Whip	5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	25
ANT-B13-CW-QW-SMA	LTE Band 13 Straight Monopole Whip	LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), NB-IoT	SMA Plug	25
ANT-B14-CW-QW-SMA	5G/LTE Band 14 Straight Monopole Whip	5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	26
ANT-B20-CW-QW-SMA	5G/LTE Band 20 Straight Monopole Whip	5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	26
ANT-B28-CW-QW-SMA	5G/LTE Band 28 Straight Monopole Whip	5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	26
IPW Series	Overview	Application	Termination*	Page
New ANT-5GW-IPW1-NP	Cellular Multiband Straight Dipole Whip	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	N Plug	27
New ANT-5GW-IPW2-NP	Cellular Multiband Straight Dipole Whip	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	N Plug	27
New ANT-V2X-IPW1-*	Cellular Multiband Straight Dipole Whip	C-V2x, C-V2I, DSRC, 5850 MHz to 5925 MHz	RP-SMA Plug SMA Plug	27

Cellular Antennas

External				
Connector Mount				
MON Series	Overview	Application	Termination	Page
ANT-LTE-MON-SMA	Cellular Multiband Tilt/Swivel Monopole Whip	LTE, UMTS, GSM, CBRS	SMA Plug	28
ANT-LTE-MON-SMA-E	Cellular Multiband Tilt/Swivel Monopole Whip	LTE, LTE-M (Cat-M1), NB-IoT, LPWA, GNSS	SMA Plug	28
ANT-LTE-MON-SMA-L	Cellular Multiband Tilt/Swivel Monopole Whip	LTE, LTE-M (Cat-M1), NB-IoT, CBRS, LPWA	SMA Plug	28
RH Series	Overview	Application	Termination*	Page
New ANT-450-RHR-*	450 MHz Right Angle Monopole Whip	Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT, mMTC	RP-SMA Plug SMA Plug	29
New ANT-450-RHS-*	450 MHz Straight Monopole Whip	Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT, mMTC	RP-SMA Plug SMA Plug	29
WP Series	Overview	Application	Termination	Page
ANT-5GMWP1-SMA	5G Cellular Sub-6 Midband Multiband Hinged Dipole Whip	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	30
WS Series	Overview	Application	Termination	Page
ANT-5GMWS1-SMA	5G Cellular Sub-6 Midband Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	30
ANT-5GWWS1-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	30
ANT-5GWWS2-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	31
ANT-LTE-WS-SMA	Cellular Multiband Hinged Dipole Blade	LTE, LTE-M (Cat-M1), NB-IoT, LPWA, GNSS	SMA Plug	31
Panel Mount				
PW Series	Overview	Application	Termination*	Page
ANT-410-PW-QW-*	410 MHz Straight Monopole Whip	Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	U.FL-Type Plug Unterminated	32
ANT-450-PW-QW-*	450 MHz Straight Monopole Whip	Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	U.FL-Type Plug Unterminated	32
ANT-B5-PW-QW-*	5G/LTE Band 5 Straight Monopole Whip	5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	32
ANT-B8-PW-QW-*	5G/LTE Band 8 Straight Monopole Whip	5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	32
ANT-B13-PW-QW-*	LTE Band 13 Straight Monopole Whip	LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	33
ANT-B14-PW-QW-*	5G/LTE Band 14 Straight Monopole Whip	5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	33
ANT-B20-PW-QW-*	5G/LTE Band 20 Straight Monopole Whip	5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	33
ANT-B28-PW-QW-*	5G/LTE Band 28 Straight Monopole Whip	5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	33
SPNF Series	Overview	Application	Termination	Page
New ANT-5GW-SPNF1	5G/LTE Straight Monopole Whip	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	N jack	34

Cellular Antennas

External				
Panel Mount				
SPS1-Series	Overview	Application	Termination*	Page
New ANT-5GW-SPS1*	5G/LTE Dipole Puck	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug on 1, 2 or 3 meters of RG-174/U	34
RMS Series	Overview	Application	Termination*	Page
ANT-DB1-RMS-*	Cellular Dual-Band Straight Monopole Whip	LTE, UMTS, GSM	RP-SMA Plug, SMA Plug, TNC Plug	35
RMT Series	Overview	Application	Termination*	Page
ANT-DB1-RMT-*	Cellular Dual-Band Straight Monopole Whip	LTE, UMTS, GSM	RP-SMA Plug, SMA Plug, TNC Plug	35
Remote				
Adhesive Mount				
HDP Series	Overview	Application	Termination*	Page
ANT-DB1-HDP-*	Cellular Multiband Straight Dipole Blade	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug TNC Plug	35
HDP-IND Series	Overview	Application	Termination	Page
ANT-LTE-HDP-2000-SMA	Cellular Multiband Straight Dipole Adhesive	LTE, UMTS, GSM	SMA Plug	36
VDP Series	Overview	Application	Termination*	Page
ANT-DB1-VDP-*	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug TNC Plug	36
VDP-IND Series	Overview	Application	Termination	Page
ANT-LTE-VDP-2000-SMA	Cellular Multiband Straight Dipole Adhesive	LTE, UMTS, GSM	SMA Plug	37
Base Screw Mount				
ELE Series	Overview	Application	Termination	Page
ANT-ELE-S01-005	824 MHz Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	37
ANT-ELE-S01-006	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	37
ANT-ELE-S01-008	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	38
ANT-ELE-S01-010	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	38
ANT-ELE-S01-012	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	38
Bracket Mount				
LP-RM Series	Overview	Application	Termination	Page
ANT-DB1-LP-RM-01-N	Cellular Multiband Straight Dipole Log Periodic	N/A	N Jack	38

Sub-1 GHz LPWA & ISM

Internal/Embedded				
Surface Mount				
CHP Series	Overview	Application	Termination	Page
ANT-868-CHP-T	868 MHz Monopole Ceramic Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	39
ANT-916-CHP-T	916 MHz Monopole Ceramic Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	39
HE Series	Overview	Application	Termination	Page
ANT-433-HESM	433 MHz Straight Monopole Helical	LoRaWAN, Weightless-P, Remote Control	Solder Pad	40
ANT-868-HESM	868 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P, Remote Control	Solder Pad	40
ANT-916-HESM	915 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	40
Splatch® Series	Overview	Application	Termination	Page
ANT-433-SP	433 MHz Monopole Chip	LoRaWAN, Weightless-P, Remote Control	Solder Pad	41
ANT-868-SP	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	41
ANT-916-SP	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	41
microSplatch™ 410 Series	Overview	Application	Termination	Page
ANT-433-USP410	433 MHz Monopole Chip	LoRaWAN, Weightless-P, Remote Control	Solder Pad	42
ANT-868-USP410	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	42
ANT-915-USP410	915 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	42
microSplatch™ Series	Overview	Application	Termination	Page
ANT-433-USP	433 MHz Monopole Chip	LoRaWAN, Weightless-P, Remote Control	Solder Pad	43
ANT-868-USP	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	43
ANT-916-USP	915 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	43
Adhesive Mount				
FPC Series	Overview	Application	Termination	Page
ANT-433-FPC-UFL-100	433 MHz Dipole Flexible Patch	LoRaWAN, Weightless-P, Remote Control	U.FL-Type	44
ANT-8/9-FPC-UFL-100	868 MHz 915 MHz Multiband Dipole Flexible Patch	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	U.FL-Type	44
Through Hole Mount				
CPA Series	Overview	Application	Termination	Page
ANT-868-CPA	868 MHz Radiating Ceramic Patch	LoRaWAN, Sigfox, Weightless-P	Solder Pin	45
ANT-915-CPA	915 MHz Radiating Ceramic Patch	LoRaWAN, ISM	Solder Pin	45

Sub-1 GHz LPWA & ISM

Internal/Embedded				
Through Hole Mount				
HE Series	Overview	Application	Termination	Page
ANT-433-HETH	433 MHz Straight Monopole Helical	LoRaWAN, Weightless-P, Remote Control	Solder Pin	45
ANT-868-HETH	868 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P	Solder Pin	45
ANT-916-HETH	915 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pin	45
JJB Series	Overview	Application	Termination	Page
ANT-868-JJB-RA	868 MHz Right Angle Monopole Dome	LoRaWAN, Sigfox, Weightless-P	Solder Pin	46
ANT-868-JJB-ST	2400 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P	Solder Pin	46
ANT-916-JJB-RA	915 MHz Right Angle Monopole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pin	46
ANT-916-JJB-ST	915 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pin	46
JJB-HT Series	Overview	Application	Termination	Page
ANT-868-JJB-HT-T	868 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P	Solder Pin	47
ANT-916-JJB-HT-T	915 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pin	47
VHETH Series	Overview	Application	Termination	Page
ANT-868-VHETH	868 MHz Monopole Vertical Helical	LoRaWAN, Sigfox, Weightless-P	Solder Pin	47
ANT-915-VHETH	915 MHz Monopole Vertical Helical	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pin	47
External				
Connector Mount				
CW Series	Overview	Application	Termination*	Page
ANT-433-CW-QW-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	48
ANT-490-CW-QW-SMA	490 MHz Straight Monopole Whip	LoRaWAN	SMA Plug	48
ANT-868-CW-QW-*	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	48
ANT-916-CW-QW-*	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	48
HD Series	Overview	Application	Termination*	Page
ANT-433-CW-HD-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	49
ANT-868-CW-HD-SMA	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	SMA Plug	49
ANT-916-CW-HD	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug	49
HW Series	Overview	Application	Termination*	Page
ANT-433-CW-HW-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	50
ANT-868-CW-HW-*	868 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	50
ANT-916-CW-HW-*	915 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	50

Sub-1 GHz LPWA & ISM

External				
Connector Mount				
HWR Series	Overview	Application	Termination*	Page
ANT-433-CW-HWR*	433 MHz Tilt/Swivel Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	50
ANT-868-CW-HWR*	868 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	50
ANT-916-CW-HWR*	915 MHz Tilt/Swivel Dipole Whip Applications	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	51
IPW Series	Overview	Application	Termination	Page
New ANT-8/9-IPW1-NP	868 MHz/915 MHz Straight Outdoor Dipole	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Plug	51
New ANT-8/9-IPW2-NP	868 MHz/915 MHz Straight Outdoor Dipole	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Plug	51
New ANT-8/9-IPW1-SMA	868 MHz/915 MHz Tilt/Swivel Dipole Blade	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	SMA Plug	51
New ANT-915-IPW1-RPS	915 MHz Tilt/Swivel Dipole Blade	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug	51
OC Series	Overview	Application	Termination*	Page
ANT-433-OC-LG*	433 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	52
ANT-868-OC-LG*	868 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	52
ANT-916-OC-LG*	915 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	52
RAH Series	Overview	Application	Termination*	Page
ANT-433-CW-RAH*	433 MHz Right Angle Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	53
ANT-868-CW-RAH*	868 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P,	RP-SMA Plug SMA Plug	53
ANT-916-CW-RAH*	915 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	53
RCL Series	Overview	Application	Termination*	Page
ANT-868-CW-RCL-SMA	868 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P	SMA Plug	53
ANT-916-CW-RCL*	915 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	53
RCS Series	Overview	Application	Termination*	Page
ANT-433-CW-RCS*	433 MHz Right Angle Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	54
ANT-868-CW-RCS*	868 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	54
ANT-916-CW-RCS	915 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug	54
RH Series	Overview	Application	Termination*	Page
ANT-433-CW-RH*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	55
ANT-868-CW-RH*	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	55
ANT-916-CW-RH*	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	55

Sub-1 GHz LPWA & ISM

External				
Panel Mount				
PML Series	Overview	Application	Termination*	Page
ANT-868-PML*	868 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P	U.FL-Type Plug Unterminated	56
ANT-916-PML*	915 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	U.FL-Type Plug Unterminated	56
PW Series	Overview	Application	Termination*	Page
ANT-433-PW-QW*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	U.FL-Type Plug Unterminated	57
ANT-490-PW-QW*	490 MHz Straight Monopole Whip	LoRaWAN	U.FL-Type Plug Unterminated	57
ANT-868-PW-QW*	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	U.FL-Type Plug Unterminated	57
ANT-916-PW-QW*	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	U.FL-Type Plug Unterminated	57
SPNF Series	Overview	Application	Termination*	Page
New ANT-8/9-SPNF1	868 MHz/915 MHz Dipole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Jack	58
New ANT-8/9-SPNF2	868 MHz/915 MHz Dipole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Jack	58
SPS Series	Overview	Application	Termination*	Page
New ANT-433-SPS1*	433 MHz Dipole Puck	LoRaWAN, Weightless-P, Remote Control	SMA Plug on 1, 2 or 3 meters of RG-174/U	58
New ANT-8/9-SPS1*	868 MHz/915 MHz Dipole Puck	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	SMA Plug on 1, 2 or 3 meters of RG-174/U	58
WRT Series	Overview	Application	Termination*	Page
ANT-433-WRT*	433 MHz Straight Dipole Dome	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	59
ANT-868-WRT*	868 MHz Straight Dipole Dome	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	59
ANT-916-WRT*	915 MHz Straight Dipole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	59
PCB Screw Mount				
LP Series	Overview	Application	Termination	Page
ANT-433-PW-LP	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	Screw Lug	60
ANT-868-PW-LP	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	Screw Lug	60
ANT-916-PW-LP	916 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Screw Lug	60
RA Series	Overview	Application	Termination	Page
ANT-433-PW-RA	433 MHz Tilt/Swivel Monopole Whip	LoRaWAN, Weightless-P, Remote Control	Screw Lug	61
ANT-868-PW-RA	868 MHz Tilt/Swivel Monopole Whip	LoRaWAN, Sigfox, Weightless-P	Screw Lug	61
ANT-916-PW-RA	915 MHz Tilt/Swivel Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Screw Lug	61

Sub-1 GHz LPWA & ISM

Remote				
Adhesive Mount				
HDP-IND Series	Overview	Application	Termination*	Page
ANT-8/9-HDP-2000-*	LPWA Dual-Band Straight Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	62
MHW Series	Overview	Application	Termination*	Page
ANT-433-MHW-*	433 MHz Dipole Adhesive	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	62
ANT-868-MHW-*	868 MHz Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	62
ANT-916-MHW-*	915 MHz Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	62
VDP-IND Series	Overview	Application	Termination*	Page
ANT-8/9-VDP-2000-*	LPWA Multiband Straight Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	63
Bracket Mount				
ID Series	Overview	Application	Termination*	Page
ANT-868-ID-1000-*	868 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	63
ANT-916-ID-1000-*	915 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	63

WiFi/WLAN

Internal/Embedded				
Surface Mount				
nanoSplatch™ Series	Overview	Application	Termination	Page
ANT-DB1-nSP250-T	WiFi/WLAN Dual-Band Monopole Chip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Solder Pad	64
Adhesive Mount				
FPC Series	Overview	Application	Termination	Page
ANT-W63-FPC-UFL-100	WiFi/WLAN Multiband Dipole Flexible Patch	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug	64
ANT-W63-FPC2-UFL-100	WiFi/WLAN Multiband Dipole Flexible Patch	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug	64
RPC Series	Overview	Application	Termination*	Page
ANT-W63RPC1-*	WiFi/WLAN Multiband Dipole Rigid PCB	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug MHF4-Type Plug Unterminated	65
External				
Connector Mount				
IPW Series	Overview	Application	Termination	Page
ANT-W63-IPW1-NP	WiFi 6E/WiFi 6 Multiband Straight Dipole Whip	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	N Plug	65
ANT-W63-IPW2-NP	WiFi 6E/WiFi 6 Multiband Straight Dipole Whip	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	N Plug	65
LCD Series	Overview	Application	Termination*	Page
ANT-DB1-LCD-*	WiFi/WLAN Dual-Band Hinged Dipole Whip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	66
MON Series	Overview	Application	Termination*	Page
ANT-W63-MON-*	WiFi 6E/WiFi 6 Multiband Hinged Dipole Whip	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	66
RAF Series	Overview	Application	Termination*	Page
ANT-DB1-RAF-*	WiFi/WLAN Dual-Band Tilt/Swivel Dipole Whip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	66
WS Series	Overview	Application	Termination*	Page
ANT-W63WS1-*	WiFi 6E/WiFi 6 Multiband Hinged Dipole Blade	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	67
ANT-W63WS3-SMA	WiFi 6E/WiFi 6 Multiband Hinged Dipole Blade	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	SMA Plug	67

WiFi/WLAN

External				
Panel Mount				
LPD Series	Overview	Application	Termination	Page
ANT-DB1-LPD-125	WiFi/WLAN Dual-Band Hinged Dipole Whip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug	67
SPS Series	Overview	Application	Termination*	Page
New ANT-W63-SPS1-*	WiFi 6E/WiFi 6 Multiband Straight Dipole Puck	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	SMA Plug on 1, 2 or 3 meters of RG-174/U	67
WRT Series	Overview	Application	Termination*	Page
New ANT-DB1-WRT-*	WiFi/WLAN Dual-Band Straight Dipole Dome	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Plug	68
New ANT-W63-WRT-*	WiFi 6E/WiFi 6 Multiband Straight Dipole Dome	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Plug	68
WRT-MON Series	Overview	Application	Termination*	Page
ANT-DB1-WRT-MON-*	WiFi/WLAN Dual-Band Straight Monopole Dome	WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug U.FL-Type Plug	68
Remote				
Adhesive Mount				
HDP-IND Series	Overview	Application	Termination*	Page
ANT-2/5-HDP-2000-*	WiFi/WLAN Multiband Straight Dipole Adhesive	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	69
VDP-IND Series	Overview	Application	Termination*	Page
ANT-2/5-VDP-2000-*	WiFi/WLAN Multiband Straight Dipole Adhesive	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	69

2.4 GHz ISM

Internal/Embedded				
Surface Mount				
CHP Series	Overview	Application	Termination	Page
ANT-2.45-CHP-T	2400 MHz Monopole Ceramic Chip	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pad	70
microSplatch™ Series	Overview	Application	Termination	Page
ANT-2.4-USP	2400 MHz Monopole Chip	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pad	70
nanoSplatch™ Series	Overview	Application	Termination	Page
ANT-DB1-nSP250-T	2400 MHz Monopole Chip	Bluetooth, ZigBee, 802.15.4, WiFi 4, 802.11	Solder Pad	70
Through Hole Mount				
CPA Series	Overview	Application	Termination	Page
ANT-2.4-CPA	2400 MHz Radiating Ceramic Patch	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pin	71
JJB Series	Overview	Application	Termination	Page
ANT-2.4-JJB-RA	2400 MHz Right Angle Monopole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pin	71
ANT-2.4-JJB-ST	2400 MHz Straight Monopole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pin	71
External				
Connector Mount				
CT Series	Overview	Application	Termination*	Page
ANT-2.4-CW-CT-*	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	72
CW Series	Overview	Application	Termination*	Page
ANT-2.4-CW-QW-*	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	72
HW Series	Overview	Application	Termination*	Page
ANT-2.4-CW-HW-*	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	72
ANT-2.4-CW-HW-T	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug	72
HWR Series	Overview	Application	Termination*	Page
ANT-2.4-CW-HWR-*	2400 MHz Tilt/Swivel Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	73
LCW Series	Overview	Application	Termination*	Page
ANT-2.4-LCW-*	2400 MHz Hinged Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	73
OC Series	Overview	Application	Termination*	Page
ANT-2.4-OC-LG-*	2400 MHz Tilt/Swivel Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	73
RAH Series	Overview	Application	Termination*	Page
ANT-2.4-CW-RAH-*	2400 MHz Right Angle Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	74

2.4 GHz ISM

External				
Connector Mount				
RCL Series	Overview	Application	Termination*	Page
ANT-2.4-CW-RCL-*	2400 MHz Right Angle Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	74
RCS Series	Overview	Application	Termination*	Page
ANT-2.4-CW-RCS-*	2400 MHz Right Angle Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	74
RCT Series	Overview	Application	Termination*	Page
ANT-2.4-CW-RCT-*	2400 MHz Right Angle Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	75
RH Series	Overview	Application	Termination*	Page
ANT-2.4-CW-RH-*	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	75
Panel Mount				
LPW Series	Overview	Application	Termination	Page
ANT-2.4-LPW-125	2400 MHz Hinged Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug	75
PML Series	Overview	Application	Termination*	Page
ANT-2.4-PML-*	2400 MHz Tilt/Swivel Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug Unterminated	75
PW Series	Overview	Application	Termination*	Page
ANT-2.4-PW-QW-*	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug Unterminated	76
WRT Series	Overview	Application	Termination*	Page
ANT-2.4-WRT-*	2400 MHz Straight Dipole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug U.FL-Type Plug	76
WRT-MON Series	Overview	Application	Termination*	Page
ANT-2.4-WRT-MON-*	2400 MHz Straight Monopole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug U.FL-Type Plug	76
PCB Screw Mount				
LP Series	Overview	Application	Termination	Page
ANT-2.4-PW-LP	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	Screw Lug	76
Remote				
Base Screw Mount				
ELE Series	Overview	Application	Termination	Page
ANT-ELE-S01-011	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4 Use with MAG Series Remote Mount Base	Screw Base	77
Bracket Mount				
ID Series	Overview	Application	Termination*	Page
ANT-2.4-ID-1000-*	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	77

GNSS Antennas

Internal/Embedded				
Surface Mount				
SM-CP Series	Overview	Application	Termination	Page
ANT-GNSSCP-SM12L1	L1/E1/B1 Dual-Band Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pad	78
Adhesive/Mechanical Mount				
SM-CP Series	Overview	Application	Termination	Page
New ANT-GNCP-CA158L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	78
New ANT-GNCP-CA188L165	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	78
New ANT-GNCP-C106L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	79
New ANT-GNCP-C185L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	79
New ANT-GNCP-C257L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	79
New ANT-GNCP-C357L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	79
New ANT-GNCP-C25L12100	L1/E1/B1 L2/E5/B2B Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	80
New ANT-GNCP-C25L15100	L1/E1/B1 L5/E5/B2A Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	80
New ANT-GNCP-C25L125100	L1/E1/B1 L2/E5/B2B L5/E5/B2A Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	80
Through Hole Mount				
TH-CP Series	Overview	Application	Termination	Page
New ANT-GNCP-TH25AL12	L1/E1/B1, L2/L2C Multiband Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	81
ANT-GNCP-TH258L15	L1/L5/E1/B1 Multiband Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	81
ANT-GNSSCP-TH18L1	L1/E1/B1 Multiband Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	81
ANT-GNSSCP-TH25L1	L1/E1/B1 Multiband Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	81
Remote				
Magnetic Mount				
SH2 Series	Overview	Application	Termination*	Page
ANT-GPS-SH2-*	1553 MHz Radiating Patch Puck	GPS, Galileo, GLONASS, COMPASS, Beidou	SMA Plug MCX Plug MMCX Plug	82

Other Antennas

Internal/Embedded				
Surface Mount				
HE Series	Overview	Application	Termination	Page
ANT-315-HESM	315 MHz Straight Monopole Helical	Remote Control	Solder Pad	83
ANT-418-HESM	418 MHz Straight Monopole Helical	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pad	83
Splatch® Series	Overview	Application	Termination	Page
ANT-315-SP	315 MHz Monopole Chip	Remote Control	Solder Pad	84
ANT-403-SP	403 MHz Monopole Chip	N/A	Solder Pad	84
ANT-418-SP	418 MHz Monopole Chip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pad	84
ANT-458-SP	458 MHz Monopole Chip	PMR, Personal Mobile Radio	Solder Pad	84
microSplatch™ Series	Overview	Application	Termination	Page
ANT-403-USP	403 MHz Monopole Chip	N/A	Solder Pad	85
ANT-418-USP	418 MHz Monopole Chip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pad	85
Through Hole Mount				
HE Series	Overview	Application	Termination	Page
ANT-315-HETH	315 MHz Straight Monopole Helical	Remote Control	Solder Pin	85
ANT-418-HETH	418 MHz Straight Monopole Helical	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pin	85
External				
Connector Mount				
CW Series	Overview	Application	Termination*	Page
ANT-418-CW-QW-*	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	86
HD Series	Overview	Application	Termination	Page
ANT-315-CW-HD	315 MHz Straight Monopole Whip	Remote Control	RP-SMA Plug	86
ANT-418-CW-HD	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug	86
HW Series	Overview	Application	Termination*	Page
ANT-315-CW-HW-*	315 MHz Straight Monopole Whip	Remote Control	RP-SMA Plug SMA Plug	87
ANT-418-CW-HW-*	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	87
ANT-1.4-CW-HW-*	1400 MHz Straight Dipole Whip	N/A	RP-SMA Plug SMA Plug	87
HWR Series	Overview	Application	Termination*	Page
ANT-315-CW-HWR-*	315 MHz Tilt/Swivel Monopole Whip	Remote Control	RP-SMA Plug SMA Plug	88
ANT-418-CW-HWR-*	418 MHz Tilt/Swivel Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	88
ANT-1.4-CW-HWR-*	1400 MHz Tilt/Swivel Dipole Whip	N/A	RP-SMA Plug SMA Plug	88

Other Antennas

External				
Connector Mount				
RAH Series	Overview	Application	Termination	Page
ANT-418-CW-RAH	418 MHz Right Angle Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug	88
RCS Series	Overview	Application	Termination	Page
ANT-315-CW-RCS	315 MHz Right Angle Monopole Whip	Remote Control	RP-SMA Plug	89
ANT-418-CW-RCS	418 MHz Right Angle Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug	89
RH Series	Overview	Application	Termination*	Page
ANT-315-CW-RH-*	315 MHz Straight Monopole Whip	Remote Control	RP-SMA Plug SMA Plug	89
ANT-418-CW-RH-*	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	89
Panel Mount				
PW Series	Overview	Application	Termination*	Page
ANT-418-PW-QW-*	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	U.FL-Type Plug Unterminated	90
WRT Series	Overview	Application	Termination*	Page
ANT-418-WRT-*	418 MHz Straight Dipole Dome	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	90
PCB Screw Mount				
LP Series	Overview	Application	Termination	Page
ANT-315-PW-LP	315 MHz Straight Monopole Whip	Remote Control	Screw Lug	90
ANT-418-PW-LP	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Screw Lug	90
RA Series	Overview	Application	Termination	Page
ANT-315-PW-RA	315 MHz Tilt/Swivel Monopole Whip	Remote Control	Screw Lug	91
ANT-418-PW-RA	418 MHz Tilt/Swivel Monopole Whip	Medical	Screw Lug	91
Remote				
Adhesive Mount				
MHW Series	Overview	Application	Termination*	Page
ANT-418-MHW-RPS-*	418 MHz Dipole Adhesive	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	91

Antenna Mounts



Remote				
Magnetic Mount				
MAG Series	Overview	Application	Termination*	Page
ANT-MAG-B50-*	Straight – Magnetic Base	Use with ELE Series Screw Base Antennas	RP-SMA Plug SMA Plug TNC Plug	92
ANT-MAG-B66-*	Straight – Magnetic Base	Use with ELE Series Screw Base Antennas	RP-SMA Plug SMA Plug TNC Plug	92
ANT-MAG-B85-*	Straight – Magnetic Base	Use with ELE Series Screw Base Antennas	RP-SMA Plug SMA Plug TNC Plug	92




Cellular Antennas

Linx cellular antennas support cellular and cellular IoT applications including:

- 5G, 4G, 3G, 2G
- LTE, UMTS, GSM
- LTE-M (Cat-M1)
- NB-IoT
- CBRS

Data is provided by frequency band in MHz. LTE/5G NR band names may be cross-referenced to frequencies using the band table on pages 81 and 82.

Internal/Embedded							
Surface Mount							
CER Series							
 <p>ANT-LTE-CER-T</p>	Overview	Electrical Data				Mechanical Data	
	Cellular Multiband Monopole Ceramic Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Surface Mount
	Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT	698 - 960	4.0	3.5	55	Termination	Solder Pad
		1710 - 2200	3.2	4.0	75	Dimensions	37.0 mm x 5.0 mm x 5.0 mm
		2300 - 2400	2.5	3.8	75	Op. Temp	-40 °C to +85 °C
		2496 - 2690	2.5	3.0	65	Ground Plane	120 mm x 45 mm
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50					
Splatch® Series							
 <p>ANT-LTE-SP610-T</p>	Overview	Electrical Data				Mechanical Data	
	Cellular Multiband Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Surface Mount
	Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT	698 - 803	3.4	5.1	61	Termination	Solder Pad
		791 - 960	3.4	5.1	60	Dimensions	40.0 mm x 10.0 mm x 2.8 mm
		1710 - 2200	3.1	5.3	80	Op. Temp	-40 °C to +120 °C
		2300 - 2400	3.0	4.9	71	Ground Plane	102 mm x 45 mm
		2496 - 2690	5.0	2.7	52		
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
	Radiation Pattern	Omnidirectional					
	Impedance (Ohms)	50					

Internal/Embedded																																							
Adhesive Mount																																							
FPC Series																																							
 <p>ANT-5GLFPC1-UFL-100</p>	Overview 5G Cellular Sub-6 Multiband Dipole Flexible Patch	Electrical Data			Mechanical Data																																		
	Applications 5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>698 - 803</td> <td>6.8</td> <td>-3.2</td> </tr> <tr> <td>791 - 960</td> <td>3.7</td> <td>-3.0</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	698 - 803	6.8	-3.2	791 - 960	3.7	-3.0	Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Mounting Type Adhesive Termination U.FL-Type Plug Dimensions 39.0 mm x 15.0 mm x 0.2 mm Op. Temp -40 °C to +85 °C Cable Length 100.0 mm Cable Type 1.13 mm																										
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)																																					
698 - 803	6.8	-3.2																																					
791 - 960	3.7	-3.0																																					
 <p>ANT-5GMFPC1-UFL-100</p>	Overview 5G Cellular Sub-6 Multiband Dipole Flexible Patch	Electrical Data			Mechanical Data																																		
	Applications 5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2300 - 2400</td> <td>3.2</td> <td>3.0</td> <td>57</td> </tr> <tr> <td>2496 - 2690</td> <td>1.8</td> <td>4.7</td> <td>73</td> </tr> <tr> <td>3300 - 3800</td> <td>1.7</td> <td>4.8</td> <td>59</td> </tr> <tr> <td>3700 - 4200</td> <td>1.6</td> <td>5.9</td> <td>68</td> </tr> <tr> <td>4400 - 5000</td> <td>1.4</td> <td>6.7</td> <td>71</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	2300 - 2400	3.2	3.0	57	2496 - 2690	1.8	4.7	73	3300 - 3800	1.7	4.8	59	3700 - 4200	1.6	5.9	68	4400 - 5000	1.4	6.7	71	Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Mounting Type Adhesive Termination U.FL-Type Plug Dimensions 42.0 mm x 12.0 mm x 0.2 mm Op. Temp -40 °C to +80 °C Cable Length 100.0 mm Cable Type 1.13 mm											
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																																				
2300 - 2400	3.2	3.0	57																																				
2496 - 2690	1.8	4.7	73																																				
3300 - 3800	1.7	4.8	59																																				
3700 - 4200	1.6	5.9	68																																				
4400 - 5000	1.4	6.7	71																																				
 <p>ANT-LPC-FPC-100</p>	Overview Cellular Multiband Dipole Flexible Patch	Electrical Data			Mechanical Data																																		
	Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT, CBRS, LPWA, GNSS	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>698 - 803</td> <td>8.2</td> <td>0.1</td> <td>25</td> </tr> <tr> <td>791 - 960</td> <td>4.8</td> <td>3.7</td> <td>43</td> </tr> <tr> <td>1553 - 1609</td> <td>1.7</td> <td>3.3</td> <td>72</td> </tr> <tr> <td>1710 - 2200</td> <td>4.9</td> <td>2.2</td> <td>49</td> </tr> <tr> <td>2300 - 2400</td> <td>3.5</td> <td>3.3</td> <td>53</td> </tr> <tr> <td>2400 - 2485</td> <td>2.7</td> <td>3.9</td> <td>43</td> </tr> <tr> <td>2496 - 2690</td> <td>3.1</td> <td>5.0</td> <td>59</td> </tr> <tr> <td>3300 - 3800</td> <td>2.0</td> <td>5.7</td> <td>70</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	698 - 803	8.2	0.1	25	791 - 960	4.8	3.7	43	1553 - 1609	1.7	3.3	72	1710 - 2200	4.9	2.2	49	2300 - 2400	3.5	3.3	53	2400 - 2485	2.7	3.9	43	2496 - 2690	3.1	5.0	59	3300 - 3800	2.0	5.7	70	Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																																				
698 - 803	8.2	0.1	25																																				
791 - 960	4.8	3.7	43																																				
1553 - 1609	1.7	3.3	72																																				
1710 - 2200	4.9	2.2	49																																				
2300 - 2400	3.5	3.3	53																																				
2400 - 2485	2.7	3.9	43																																				
2496 - 2690	3.1	5.0	59																																				
3300 - 3800	2.0	5.7	70																																				

Internal/Embedded

Adhesive Mount

FPC Series



ANT-LPL-FPC-100

Overview	Electrical Data				Mechanical Data		
Cellular Multiband Dipole Flexible Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive	
Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT, CBRS, LPWA, GNSS	698 - 803	2.3	5.6	47	Termination	U.FL-Type Plug	
	791 - 960	2.4	6.5	57	Dimensions	110.0 mm x 20.0 mm x 0.2 mm	
	1710 - 2200	4.6	4.9	72		Op. Temp	-40 °C to +85 °C
	2300 - 2400	1.4	5.2	73	Cable Length	100.0 mm	
	2400 - 2485	1.8	5.0	66	Cable Type	1.13 mm	
	2496 - 2690	1.8	5.3	69			
	3300 - 3800	3.5	2.9	48			
	Polarization	Linear					
	Wavelength	1/2					
	Electrical Type	Dipole					
Radiation Pattern	Omnidirectional						
Impedance (Ohms)	50						

RPC Series



ANT-LTE-RPC-*




Overview	Electrical Data				Mechanical Data	
Cellular Multiband Dipole Rigid Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive
Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT, LPWA, GNSS, WiFi 4	617 - 698	2.5	3.6	64	Termination*	U.FL-Type Plug
	698 - 803	1.8	4.9	61		Unterminated
	791 - 960	2.4	6.3	55	Dimensions	98.4 mm x 14.9 mm x 0.8 mm
	1553 - 1609	1.2	5.0	77		Op. Temp
	1710 - 2200	1.8	5.1	81	Cable Length	100.0 mm
	2300 - 2400	1.4	5.0	73	Cable Type	1.13 mm
	2496 - 2690	2.1	4.6	70		
	2400 - 2485	1.5	4.8	66		
	3300 - 3800	4.1	3.1	35		
	Polarization	Linear				
Wavelength	1/2					
Electrical Type	Dipole					
Radiation Pattern	Omnidirectional					
Impedance (Ohms)	50					

External											
Connector Mount											
CW Series											
 <p>ANT-410-CW-QW-SMA</p>	Overview 410 MHz Straight Monopole Whip Applications Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	Electrical Data				Mechanical Data					
		<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>410</td> <td>1.8</td> <td>4.1</td> <td>80</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	410	1.8	4.1	80	Polarization: Linear Wavelength: 1/4 Electrical Type: Monopole Radiation Pattern: Omnidirectional Impedance (Ohms): 50
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)								
410	1.8	4.1	80								
 <p>ANT-450-CW-QW-SMA</p>	Overview 450 MHz Straight Monopole Whip Applications Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	Electrical Data				Mechanical Data					
		<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>450</td> <td>1.3</td> <td>3.4</td> <td>72</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	450	1.3	3.4	72	Polarization: Linear Wavelength: 1/4 Electrical Type: Monopole Radiation Pattern: Omnidirectional Impedance (Ohms): 50
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)								
450	1.3	3.4	72								
 <p>ANT-B5-CW-QW-SMA</p>	Overview 5G/LTE Band 5 Straight Monopole Whip Applications 5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Electrical Data				Mechanical Data					
		<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>800 - 900</td> <td>2.0</td> <td>1.2</td> <td>65</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	800 - 900	2.0	1.2	65	Polarization: Linear Wavelength: 1/4 Electrical Type: Monopole Radiation Pattern: Omnidirectional Impedance (Ohms): 50
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)								
800 - 900	2.0	1.2	65								
 <p>ANT-B8-CW-QW-SMA</p>	Overview 5G/LTE Band 8 Straight Monopole Whip Applications 5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Electrical Data				Mechanical Data					
		<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>870 - 960</td> <td>2.0</td> <td>1.6</td> <td>68</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	870 - 960	2.0	1.6	68	Polarization: Linear Wavelength: 1/4 Electrical Type: Monopole Radiation Pattern: Omnidirectional Impedance (Ohms): 50
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)								
870 - 960	2.0	1.6	68								
 <p>ANT-B13-CW-QW-SMA</p>	Overview LTE Band 13 Straight Monopole Whip Applications LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT	Electrical Data				Mechanical Data					
		<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>740 - 790</td> <td>2.0</td> <td>1.7</td> <td>77</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	740 - 790	2.0	1.7	77	Polarization: Linear Wavelength: 1/4 Electrical Type: Monopole Radiation Pattern: Omnidirectional Impedance (Ohms): 50
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)								
740 - 790	2.0	1.7	77								

External

Connector Mount

CW Series

 <p>ANT-B14-CW-QW-SMA</p>	Overview 5G/LTE Band 14 Straight Monopole Whip	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>750 - 800</td> <td>2.0</td> <td>1.9</td> <td>80</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	750 - 800	2.0	1.9	80	Mechanical Data <table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>94.2 mm x 14.5 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +90 °C</td> </tr> <tr> <td>Ground Plane</td> <td>102 mm x 102 mm</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	SMA Plug	Dimensions	94.2 mm x 14.5 mm	Op. Temp	-40 °C to +90 °C	Ground Plane	102 mm x 102 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																	
750 - 800	2.0	1.9	80																		
Mounting Type	Connector Mount																				
Termination	SMA Plug																				
Dimensions	94.2 mm x 14.5 mm																				
Op. Temp	-40 °C to +90 °C																				
Ground Plane	102 mm x 102 mm																				
Applications 5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50																				
 <p>ANT-B20-CW-QW-SMA</p>	Overview 5G/LTE Band 20 Straight Monopole Whip	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>790 - 870</td> <td>2.5</td> <td>1.6</td> <td>72</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	790 - 870	2.5	1.6	72	Mechanical Data <table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>89.7 mm x 14.5 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +90 °C</td> </tr> <tr> <td>Ground Plane</td> <td>102 mm x 102 mm</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	SMA Plug	Dimensions	89.7 mm x 14.5 mm	Op. Temp	-40 °C to +90 °C	Ground Plane	102 mm x 102 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																	
790 - 870	2.5	1.6	72																		
Mounting Type	Connector Mount																				
Termination	SMA Plug																				
Dimensions	89.7 mm x 14.5 mm																				
Op. Temp	-40 °C to +90 °C																				
Ground Plane	102 mm x 102 mm																				
Applications 5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50																				
 <p>ANT-B28-CW-QW-SMA</p>	Overview 5G/LTE Band 28 Straight Monopole Whip	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>700 - 810</td> <td>2.7</td> <td>1.7</td> <td>73</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	700 - 810	2.7	1.7	73	Mechanical Data <table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>98.4 mm x 14.5 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +90 °C</td> </tr> <tr> <td>Ground Plane</td> <td>102 mm x 102 mm</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	SMA Plug	Dimensions	98.4 mm x 14.5 mm	Op. Temp	-40 °C to +90 °C	Ground Plane	102 mm x 102 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																	
700 - 810	2.7	1.7	73																		
Mounting Type	Connector Mount																				
Termination	SMA Plug																				
Dimensions	98.4 mm x 14.5 mm																				
Op. Temp	-40 °C to +90 °C																				
Ground Plane	102 mm x 102 mm																				
Applications 5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50																				

External

Connector Mount

IPW Series

New



ANT-5GW-IPW1-NP

Overview	Electrical Data				Mechanical Data	
5G/LTE Outdoor Cellular Dipole	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
Applications 5G/LTE, LTE-M (Cat-M1), NB-IoT, CBRS	617 - 698	1.9	1.8	68	Termination	N Plug
	698 - 803	1.9	2.8	82	Dimensions	178.0 mm x Ø25.0 mm
	791 - 960	3.1	2.3	69	Op. Temp	-40 °C to +70 °C
	1710 - 2200	4.1	3.8	81		
	2300 - 2400	4.8	3.9	80		
	2496 - 2690	3.6	3.0	68		
	3300 - 3800	1.8	5.4	88		
	3550 - 3700	1.1	5.4	96		
	3700 - 4200	1.5	6.2	83		
	4400 - 5000	1.9	7.6	78		
	Polarization	Linear				
Wavelength	1/2					
Electrical Type	Dipole					
Radiation Pattern	Omnidirectional					
Impedance (Ohms)	50					

New



ANT-5GW-IPW2-NP

Overview	Electrical Data				Mechanical Data	
5G/LTE Outdoor Cellular Dipole	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
Applications 5G/LTE, LTE-M (Cat-M1), NB-IoT, CBRS	617 - 698	8.1	1.0	54	Termination	N Plug
	698 - 803	8.5	1.5	56	Dimensions	132.0 mm x Ø24.0 mm
	791 - 960	3.9	1.6	56	Op. Temp	-30 °C to +70 °C
	1710 - 2200	2.4	1.2	41		
	2300 - 2400	1.8	1.6	40		
	2496 - 2690	1.7	1.5	40		
	3300 - 3800	1.9	0.5	36		
	3550 - 3700	1.6	2.4	77		
	3700 - 4200	1.8	2.4	68		
	4400 - 5000	2.7	3.7	54		
	Polarization	Linear				
Wavelength	1/2					
Electrical Type	Dipole					
Radiation Pattern	Omnidirectional					
Impedance (Ohms)	50					

New



ANT-V2X-IPW1-NP

Overview	Electrical Data				Mechanical Data		
C-V2X Outdoor Dipole	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount	
Applications C-V2X, C-V2I, DSRC	5850 - 5925	1.6	4.8	67	Termination	N Plug	
	Polarization	Linear				Dimensions	178.0 mm x Ø25.0 mm
	Wavelength	1/2				Op. Temp	-40 °C to +70 °C
	Electrical Type	Dipole					
	Radiation Pattern	Omnidirectional					
Impedance (Ohms)	50						

External

Connector Mount

MON Series



ANT-LTE-MON-SMA

Overview	Electrical Data				Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	
Cellular Multiband Tilt/Swivel Monopole Whip Applications LTE, 5G NR, mMTC, UMTS, GSM, CBRS	698 - 803	3.9	4.8	89	Connector Mount	
	791 - 960	3.3	5.8	89	SMA Plug	
	1710 - 2200	4.1	3.7	69	71.1 mm x 10 mm	
	2300 - 2400	4.6	2.0	52	-40 °C to +130 °C	
	2496 - 2690	4.1	2.4	53	102 mm x 102 mm	
	3300 - 3800	2.8	6.2	65		
	Polarization	Linear				
	Wavelength	1/4				
	Electrical Type	Monopole				
	Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50					



ANT-LTE-MON-SMA-E

Overview	Electrical Data				Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	
Cellular Multiband Tilt/Swivel Monopole Whip Applications LTE, LTE-M (Cat-M1), 5G NR, NB-IoT, mMTC, LPWA, GNSS	617 - 698	6.8	2.5	58	Connector Mount	
	698 - 803	2.2	4.5	83	SMA Plug	
	791 - 960	1.9	5.1	83	72.4 mm x 10 mm	
	1553 - 1609	3.6	1.1	42	-40 °C to +130 °C	
	1710 - 2200	3.2	3.3	69	102 mm x 102 mm	
	2300 - 2400	1.3	3.1	78		
	2496 - 2690	2.9	1.3	51		
	3300 - 3800	6.3	1.2	30		
	Polarization	Linear				
	Wavelength	1/4				
Electrical Type	Monopole					
Radiation Pattern	Omnidirectional					
Impedance (Ohms)	50					



ANT-LTE-MON-SMA-L

Overview	Electrical Data				Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	
Cellular Multiband Tilt/Swivel Monopole Whip Applications LTE, LTE-M (Cat-M1), 5G NR, NB-IoT, mMTC, CBRS, LPWA	617 - 698	3.3	3.4	73	Connector Mount	
	698 - 803	2.2	4.8	90	SMA Plug	
	791 - 960	2.6	5.0	90	78.7 mm x 10.0 mm	
	1553 - 1609	6.1	0.1	33	-40 °C to +130 °C	
	1710 - 2200	3.2	3.9	72	102 mm x 102 mm	
	2300 - 2400	2.3	3.4	77		
	2496 - 2690	1.9	4.1	79		
	3300 - 3800	2.2	4.6	64		
	Polarization	Linear				
	Wavelength	1/4				
Electrical Type	Monopole					
Radiation Pattern	Omnidirectional					
Impedance (Ohms)	50					

External
Connector Mount
RH Series

New



ANT-450-RHR*

Overview	Electrical Data				Mechanical Data	
450 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
Applications Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT	450-470	2.1	-4.6	12	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear			Dimensions	51.2 mm x 18.2 mm x 9.0 mm
	Wavelength	1/4			Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole			Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

New



ANT-450-RHS*

Overview	Electrical Data				Mechanical Data	
5G/LTE Band 28 Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
Applications Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT	450-470	2.1	-8.2	5	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear			Dimensions	51.8 mm x Ø9.0 mm
	Wavelength	1/4			Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole			Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Cellular

External

Connector Mount

WP Series



ANT-5GMWP1-SMA

Overview	Electrical Data				Mechanical Data	
5G Cellular Sub-6 Midband Multiband Hinged Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	3300 - 3800	1.9	5.9	80	Termination	SMA Plug
Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	3700 - 4200	2.2	4.7	71	Dimensions	195.0 mm x Ø13.0 mm
	4940 - 4990	1.4	3.2	83	Op. Temp	-40 °C to +65 °C
	Polarization	Linear				
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

WS Series



ANT-5GMWS1-SMA


Overview	Electrical Data				Mechanical Data	
5G Cellular Sub-6 Midband Multiband Hinged Dipole Blade	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	3300 - 3800	1.7	5.9	74	Termination	SMA Plug
Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	3700 - 4200	3.3	5.4	63	Dimensions	208.60 mm x 21.9 mm x 11.5 mm
	4940 - 4990	3.4	2.3	50	Op. Temp	-20 °C to +65 °C
	Polarization	Linear				
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				



ANT-5GWWS1-SMA

Overview	Electrical Data				Mechanical Data	
5G Cellular Sub-6 Multiband Hinged Dipole Blade	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	617 - 698	3.0	0.7	53	Termination	SMA Plug
Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	698 - 803	1.9	0.4	53	Dimensions	135.7 mm x 20.1 mm x 10.0 mm
	791 - 960	2.8	0.6	53	Op. Temp	-20 °C to +65 °C
	1710 - 2200	1.9	4.0	68		
	2300 - 2400	1.9	4.0	48		
	2496 - 2690	2.9	4.1	57		
	3300 - 3800	1.9	2.7	66		
	3700 - 4200	3.1	2.2	58		
	4940 - 4990	1.9	3.5	56		
	Polarization	Linear				
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

External
Connector Mount
WS Series

 ANT-5GWWS2-SMA	Overview 5G Cellular Sub-6 Multiband Hinged Dipole Blade Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr><td>617 - 698</td><td>4.0</td><td>0.6</td><td>53</td></tr> <tr><td>698 - 803</td><td>3.3</td><td>-0.1</td><td>43</td></tr> <tr><td>791 - 960</td><td>3.5</td><td>0.5</td><td>43</td></tr> <tr><td>1710 - 2200</td><td>2.5</td><td>3.3</td><td>62</td></tr> <tr><td>2300 - 2400</td><td>2.4</td><td>2.7</td><td>68</td></tr> <tr><td>2496 - 2690</td><td>2.0</td><td>1.6</td><td>77</td></tr> <tr><td>3300 - 3800</td><td>2.2</td><td>4.0</td><td>63</td></tr> <tr><td>3700 - 4200</td><td>2.4</td><td>3.7</td><td>57</td></tr> <tr><td>4940 - 4990</td><td>1.9</td><td>3.6</td><td>69</td></tr> </tbody> </table> Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	617 - 698	4.0	0.6	53	698 - 803	3.3	-0.1	43	791 - 960	3.5	0.5	43	1710 - 2200	2.5	3.3	62	2300 - 2400	2.4	2.7	68	2496 - 2690	2.0	1.6	77	3300 - 3800	2.2	4.0	63	3700 - 4200	2.4	3.7	57	4940 - 4990	1.9	3.6	69	Mechanical Data Mounting Type Connector Mount Termination SMA Plug Dimensions 208.60 mm x 11.5 mm Op. Temp -20 °C to +65 °C
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																																							
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	2496 - 2690	2.0	1.6	77																																							
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Overview Cellular Multiband Hinged Dipole Blade Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT, LPWA, GNSS	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr><td>698 - 960</td><td>2.0</td><td>4.1</td><td>65</td></tr> <tr><td>1710 - 2200</td><td>2.0</td><td>5.9</td><td>70</td></tr> <tr><td>2300 - 2400</td><td>2.0</td><td>3.1</td><td>70</td></tr> <tr><td>2496 - 2690</td><td>2.5</td><td>4.1</td><td>70</td></tr> </tbody> </table> Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	698 - 960	2.0	4.1	65	1710 - 2200	2.0	5.9	70	2300 - 2400	2.0	3.1	70	2496 - 2690	2.5	4.1	70	Mechanical Data Mounting Type Connector Mount Termination SMA Plug Dimensions 136.3 mm x 10.2 mm Op. Temp -20 °C to +65 °C																					
Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																																								
698 - 960	2.0	4.1	65																																								
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2496 - 2690	2.5	4.1	70																																								

External																													
Panel Mount																													
PW Series																													
 <p>ANT-410-PW-QW-*</p>	Overview 410 MHz Straight Monopole Whip Applications Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>410</td> <td>1.8</td> <td>4.1</td> <td>80</td> </tr> </tbody> </table>				Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	410	1.8	4.1	80	Mechanical Data <table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Panel Mount</td> </tr> <tr> <td>Termination*</td> <td>U.FL-Type Plug Unterminated Cable</td> </tr> <tr> <td>Dimensions</td> <td>177.2 mm x 14.5 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +90 °C</td> </tr> <tr> <td>Cable Length</td> <td>216.0 mm</td> </tr> <tr> <td>Cable Type*</td> <td>1.32 mm RG-174</td> </tr> <tr> <td>Ground Plane</td> <td>102 mm x 102 mm</td> </tr> </tbody> </table>		Mounting Type	Panel Mount	Termination*	U.FL-Type Plug Unterminated Cable	Dimensions	177.2 mm x 14.5 mm	Op. Temp	-40 °C to +90 °C	Cable Length	216.0 mm	Cable Type*	1.32 mm RG-174	Ground Plane	102 mm x 102 mm
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Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50																													
 <p>ANT-450-PW-QW-*</p>	Overview 450 MHz Straight Monopole Whip Applications Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>450</td> <td>1.3</td> <td>3.4</td> <td>72</td> </tr> </tbody> </table>				Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	450	1.3	3.4	72	Mechanical Data <table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Panel Mount</td> </tr> <tr> <td>Termination*</td> <td>U.FL-Type Plug Unterminated Cable</td> </tr> <tr> <td>Dimensions</td> <td>167.0 mm x 14.5 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +90 °C</td> </tr> <tr> <td>Cable Length</td> <td>216.0 mm</td> </tr> <tr> <td>Cable Type*</td> <td>1.32 mm RG-174</td> </tr> <tr> <td>Ground Plane</td> <td>102 mm x 102 mm</td> </tr> </tbody> </table>		Mounting Type	Panel Mount	Termination*	U.FL-Type Plug Unterminated Cable	Dimensions	167.0 mm x 14.5 mm	Op. Temp	-40 °C to +90 °C	Cable Length	216.0 mm	Cable Type*	1.32 mm RG-174	Ground Plane	102 mm x 102 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																									
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Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50																													
 <p>ANT-B5-PW-QW-*</p>	Overview 5G/LTE Band 5 Straight Monopole Whip Applications 5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>800 - 900</td> <td>2.0</td> <td>1.2</td> <td>65</td> </tr> </tbody> </table>				Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	800 - 900	2.0	1.2	65	Mechanical Data <table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Panel Mount</td> </tr> <tr> <td>Termination*</td> <td>U.FL-Type Plug Unterminated</td> </tr> <tr> <td>Dimensions</td> <td>83.5 mm x 14.5 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +90 °C</td> </tr> <tr> <td>Cable Length</td> <td>216.0 mm</td> </tr> <tr> <td>Cable Type*</td> <td>1.32 mm RG-174</td> </tr> <tr> <td>Ground Plane</td> <td>102 mm x 102 mm</td> </tr> </tbody> </table>		Mounting Type	Panel Mount	Termination*	U.FL-Type Plug Unterminated	Dimensions	83.5 mm x 14.5 mm	Op. Temp	-40 °C to +90 °C	Cable Length	216.0 mm	Cable Type*	1.32 mm RG-174	Ground Plane	102 mm x 102 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																									
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Ground Plane	102 mm x 102 mm																												
Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50																													
 <p>ANT-B8-PW-QW-*</p>	Overview 5G/LTE Band 8 Straight Monopole Whip Applications 5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>870 - 960</td> <td>2.0</td> <td>1.6</td> <td>68</td> </tr> </tbody> </table>				Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	870 - 960	2.0	1.6	68	Mechanical Data <table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Panel Mount</td> </tr> <tr> <td>Termination*</td> <td>U.FL-Type Plug Unterminated</td> </tr> <tr> <td>Dimensions</td> <td>80.5 mm x 14.5 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +90 °C</td> </tr> <tr> <td>Cable Length</td> <td>216.0 mm</td> </tr> <tr> <td>Cable Type*</td> <td>1.32 mm RG-174</td> </tr> <tr> <td>Ground Plane</td> <td>102 mm x 102 mm</td> </tr> </tbody> </table>		Mounting Type	Panel Mount	Termination*	U.FL-Type Plug Unterminated	Dimensions	80.5 mm x 14.5 mm	Op. Temp	-40 °C to +90 °C	Cable Length	216.0 mm	Cable Type*	1.32 mm RG-174	Ground Plane	102 mm x 102 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)																									
870 - 960	2.0	1.6	68																										
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Termination*	U.FL-Type Plug Unterminated																												
Dimensions	80.5 mm x 14.5 mm																												
Op. Temp	-40 °C to +90 °C																												
Cable Length	216.0 mm																												
Cable Type*	1.32 mm RG-174																												
Ground Plane	102 mm x 102 mm																												
Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50																													

External							
Panel Mount							
PW Series							
 <p>ANT-B13-PW-QW-*</p>	<p>Overview</p> <p>LTE Band 13 Straight Monopole Whip</p> <p>Applications</p> <p>LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT</p>	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
					Termination*	U.FL-Type Plug	
						Unterminated	
		Polarization	Linear		Dimensions	98.4 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	
 <p>ANT-B14-PW-QW-*</p>	<p>Overview</p> <p>5G/LTE Band 14 Straight Monopole Whip</p> <p>Applications</p> <p>5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT</p>	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
					Termination*	U.FL-Type Plug	
						Unterminated	
		Polarization	Linear		Dimensions	94.2 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	
 <p>ANT-B20-PW-QW-*</p>	<p>Overview</p> <p>5G/LTE Band 20 Straight Monopole Whip</p> <p>Applications</p> <p>5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT</p>	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
					Termination*	U.FL-Type Plug	
						Unterminated	
		Polarization	Linear		Dimensions	89.7 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	
 <p>ANT-B28-PW-QW-*</p>	<p>Overview</p> <p>5G/LTE Band 28 Straight Monopole Whip</p> <p>Applications</p> <p>5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT</p>	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
					Termination*	U.FL-Type Plug	
						Unterminated	
		Polarization	Linear		Dimensions	98.4 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	

External

Panel Mount

SPNF Series

New



ANT-5GW-SPNF1

Overview	Electrical Data				Mechanical Data
5G/LTE Multiband Dipole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Panel Mount
Applications 5G/LTE Multiband, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	617 - 698	7.0	1.3	56	Termination N Jack
	698 - 803	3.0	3.3	89	Dimensions 70.8 mm x Ø40.2 mm
	791 - 960	3.0	3.3	92	Op. Temp -30 °C to +70 °C
	1710 - 2200	1.7	5.1	89	Ground Plane 300 mm x 300 mm
	2300 - 2400	1.6	4.5	96	
	2496 - 2690	1.7	5.1	96	
	3300 - 3800	4.1	6.5	92	
	3550 - 3700	4.1	6.5	93	
	3700 - 4200	3.6	6.8	94	
	4400 - 5000	1.8	8.4	90	
	Polarization	Linear			
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

New



ANT-5GW-SPS1-*

Overview	Electrical Data				Mechanical Data
5G/LTE Multiband Dipole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Panel Mount
Applications 5G/LTE Multiband, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	410 - 426	1.8	-0.1	33	Termination SMA Plug
	450 - 470	2.9	-4.2	8	Dimensions 23.3 mm x Ø54.7 mm
	617 - 960	3.0	5.4	27	Op. Temp -40 °C to +70 °C
	1695 - 2200	2.2	3.8	26	Cable Length* 1 m, 2 m or 3 m
	2300 - 2400	1.3	4.2	52	Cable Type RG-174/U
	2496 - 2690	1.6	2.7	33	Ground Plane 300 mm x 300 mm
	3300 - 4200	1.6	2.7	32	
	4400 - 5925	1.6	5.1	39	
	Polarization	Linear			
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Remote

Panel Mount

RMS Series



ANT-DB1-RMS-*

Overview	Electrical Data			Mechanical Data	
Cellular Dual-Band Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications LTE, UMTS, GSM	824 - 960	1.5	-0.6	Termination*	RP-SMA Plug SMA Plug TNC Plug
	1710 - 1990	2.0	5.3	Dimensions	77.8 mm x 29.0 mm
	Polarization	Linear		Op. Temp	-40 °C to +80 °C
	Wavelength	1/4		Cable Length	4.3 m
	Electrical Type	Monopole		Cable Type	RG-58
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

RMT Series



ANT-DB1-RMT-*

Overview	Electrical Data			Mechanical Data	
Cellular Dual-Band Straight Monopole Whip	Frequency (MHz)	VSWR (max)		Mounting Type	Panel Mount
Applications LTE, UMTS, GSM	860 - 960	1.5		Termination*	RP-SMA Plug SMA Plug TNC Plug
	1710 - 1880	2.7		Dimensions	93.7 mm x 27.5 mm
	Polarization	Linear		Op. Temp	-40 °C to +80 °C
	Wavelength	1/4		Cable Length	4.3 m
	Electrical Type	Monopole		Cable Type	RG-58
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Adhesive Mount

HDP Series



ANT-DB1-HDP-*

Overview	Electrical Data			Mechanical Data	
Cellular Multiband Straight Dipole Blade	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive
Applications LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	824 - 960	1.5	0.2	Termination*	RP-SMA Plug SMA Plug TNC Plug
	1710 - 1990	1.9	-3.3	Dimensions	132.3 mm x 20.0 mm x 12.1 mm
	2400 - 2480	1.9	0.0	Op. Temp	-40 °C to +80 °C
	Polarization	Linear		Cable Length	3 m
	Wavelength	1/2		Cable Type	RG-174
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Cellular

Remote

Adhesive Mount

HDP-IND Series



ANT-LTE-HDP-2000-SMA

Overview	Electrical Data				Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	
Cellular Multiband Straight Dipole Blade Applications LTE, UMTS, GSM	617 - 698	2.4	3.7	69	Adhesive	
	698 - 803	1.9	3.8	71	SMA Plug	
	791 - 960	2.1	2.0	71	Dimensions	104.0 mm x 17.0 mm x 4.2 mm
	1710 - 2200	1.5	6.2	45	Op. Temp	-40 °C to +85 °C
	2300 - 2400	1.4	3.9	40	Cable Length	2.0 m
	2496 - 2690	1.5	4.3	37	Cable Type	RG-174/U
	3300 - 3800	1.2	5.2	22		
	1553 - 1609	1.6	3.1	40		
	3550 - 3700	1.3	4.9	21		
	3700 - 4200	1.5	3.6	19		
	4940 - 4990	1.5	-1.9	12		
	Polarization	Linear				
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

VDP Series



ANT-DB1-VDP-*

Overview	Electrical Data			Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	
Cellular Multiband Straight Dipole Blade Applications LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	824 - 960	1.5	-1.8	Adhesive	
	1710 - 1990	1.9	-1.7	RP-SMA Plug	
	2400 - 2485	1.9	-1.3	SMA Plug	
	Polarization	Linear		TNC Plug	
	Wavelength	1/2		Dimensions	115.0 mm x 22.0 mm x 5.7 mm
	Electrical Type	Dipole		Op. Temp	-40 °C to +80 °C
	Radiation Pattern	Omnidirectional		Cable Length	3.0 m
	Impedance (Ohms)	50		Cable Type	RG-174/U

Remote

Adhesive Mount

VDP-IND Series



Overview	Electrical Data				Mechanical Data		
Cellular Multiband Straight Dipole Blade Applications LTE, UMTS, GSM	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive	
	617 - 698	2.5	4.2	56	Termination	SMA Plug	
	698 - 803	1.6	4.9	62	Dimensions	115.0 mm x 22.0 mm x 6.3 mm	
	791 - 960	2.2	4.9	62	Op. Temp	-40 °C to +85 °C	
	1710 - 2200	1.5	3.9	42	Cable Length	2.0 m	
	2300 - 2400	1.5	1.8	27	Cable Type	RG-174/U	
	2496 - 2690	1.5	4.5	30			
	3300 - 3800	1.4	1.3	13			
	1553 - 1609	1.7	4.2	50			
	3550 - 3700	1.3	0	10			
	3700 - 4200	1.4	-0.6	8			
	4940 - 4990	1.5	-3.3	5			
	Polarization	Linear					
	Wavelength	1/2					
Electrical Type	Dipole						
Radiation Pattern	Omnidirectional						
Impedance (Ohms)	50						

Base Screw Mount

ELE Series



Overview	Electrical Data			Mechanical Data		
824 MHz Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Base Screw	
	824 - 960	1.5	3.8	Termination	Screw Base	
	Polarization	Linear			Dimensions	295.4 mm x 9.0 mm
	Wavelength	1/2			Op. Temp	-40 °C to +80 °C
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				






Overview	Electrical Data			Mechanical Data		
Cellular Dual-Band Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Base Screw	
	824 - 960	1.5	0.5	Termination	Screw Base	
	1710 - 1880	1.5	3.7	Dimensions	233.2 mm x 9.9 mm	
	Polarization	Linear			Op. Temp	-40 °C to +80 °C
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50					

Cellular

Remote


Base Screw Mount

ELE Series

	Overview	Electrical Data			Mechanical Data	
 <p>ANT-ELE-S01-008</p>	Overview Cellular Dual-Band Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency (MHz)	VSWR (max)			
		824 - 960	2.0			
		1710 - 1990	2.0			
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 <p>ANT-ELE-S01-010</p>	Overview Cellular Dual-Band Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		
		824 - 960	1.5	-3.9		
		1710 - 1990	1.5	-1.5		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 <p>ANT-ELE-S01-012</p>	Overview Cellular Dual-Band Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		
		824 - 960	2.0	3.2		
		1710 - 1990	2.0	4.4		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			

Bracket Mount

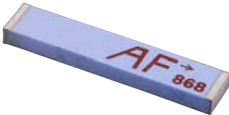

LP-RM Series

	Overview	Electrical Data			Mechanical Data	
 <p>ANT-DB1-LP-RM-01-N</p>	Overview Cellular Multiband Straight Dipole Log Periodic	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Bracket Mount
		860 - 960	1.5	8.5	Termination	N Jack
		1710 - 2170	1.5	9.0	Dimensions	395.0 mm x 210.0 mm x 36.5 mm
		2400 - 2485	1.5	9.0	Cable Length	165.0 mm
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Directional			
		Impedance (Ohms)	50			
				Cable Type	RG-303	

Sub-1 GHz LPWA & ISM

Linx sub-1 GHz antennas for LPWA and ISM applications offer single-band options in multiple styles, mounting, and terminations at 433 MHz, 490 MHz, 868 MHz and 915 MHz in support of applications including:

- LoRaWAN®
- Sigfox®
- Weightless-P
- WiFi HaLow

Internal/Embedded						
Surface Mount						
CHP Series						
 ANT-868-CHP-T	Overview	Electrical Data			Mechanical Data	
	868 MHz Monopole Ceramic Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	Applications LoRaWAN, Sigfox, Weightless-P	868	2.0	0.5	Termination	Solder Pad
		Polarization	Linear		Dimensions	3.0 mm x 16.0 mm x 1.7 mm
		Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38 mm x 84 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 ANT-916-CHP-T	Overview	Electrical Data			Mechanical Data	
	915 MHz Monopole Ceramic Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.0	0.5	Termination	Solder Pad
		Polarization	Linear		Dimensions	3.0 mm x 16.0 mm x 1.7 mm
		Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38 mm x 84 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Sub-1 GHz LPWA & ISM

Internal/Embedded

Surface Mount

HE Series




		Overview	Electrical Data			Mechanical Data	
 <p>ANT-433-HESM</p>	Overview 433 MHz Straight Monopole Helical Applications LoRaWAN, Weightless-P, Remote Control	Frequency (MHz) 433 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.0	Peak Gain (dBi) 1.9	Mounting Type Surface Mount Termination Solder Pad Dimensions 38.1 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 76 mm x 190 mm		
	Frequency (MHz) 433 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.0 Peak Gain (dBi) 1.9	Mounting Type Surface Mount Termination Solder Pad Dimensions 38.1 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 76 mm x 190 mm				
 <p>ANT-868-HESM</p>	Overview 868 MHz Straight Monopole Helical Applications LoRaWAN, Sigfox, Weightless-P	Frequency (MHz) 868 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.2	Peak Gain (dBi) 5.6	Mounting Type Surface Mount Termination Solder Pad Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm		
	Frequency (MHz) 868 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.2 Peak Gain (dBi) 5.6	Mounting Type Surface Mount Termination Solder Pad Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm				
 <p>ANT-916-HESM</p>	Overview 915 MHz Straight Monopole Helical Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) 915 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.5	Peak Gain (dBi) 6.4	Mounting Type Surface Mount Termination Solder Pad Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm		
	Frequency (MHz) 915 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.5 Peak Gain (dBi) 6.4	Mounting Type Surface Mount Termination Solder Pad Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm				

Sub-1 GHz LPWA & ISM

Internal/Embedded

Surface Mount

Splatch® Series

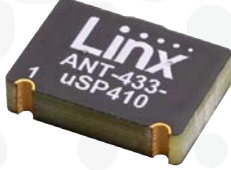
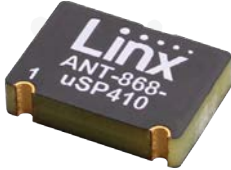

		Overview	Electrical Data			Mechanical Data	
 <p>433-SP2 SPLATCH® PAT. PEND. 1 GROUNDED LINE PLANAR ANTENNA</p> <p>ANT-433-SP</p>	<p>Overview 433 MHz Monopole Chip</p> <p>Applications LoRaWAN, Weightless-P, Remote Control</p>	<p>Frequency (MHz)</p>	<p>VSWR (max)</p>	<p>Peak Gain (dBi)</p>	<p>Mounting Type</p>	Surface Mount	
		433	1.9	-6.4	<p>Termination</p>	Solder Pad	
		<p>Polarization</p>	Linear		<p>Dimensions</p>	27.9 mm x 13.7 mm x 1.5 mm	
		<p>Wavelength</p>	1/4		<p>Op. Temp</p>	-40 °C to +130 °C	
		<p>Electrical Type</p>	Monopole		<p>Ground Plane</p>	38 mm x 84 mm	
		<p>Radiation Pattern</p>	Omnidirectional				
		<p>Impedance (Ohms)</p>	50				
 <p>868-SP1 SPLATCH® PAT. PEND. 1 GROUNDED LINE PLANAR ANTENNA</p> <p>ANT-868-SP</p>	<p>Overview 868 MHz Monopole Chip</p> <p>Applications LoRaWAN, Sigfox, Weightless-P</p>	<p>Frequency (MHz)</p>	<p>VSWR (max)</p>	<p>Peak Gain (dBi)</p>	<p>Mounting Type</p>	Surface Mount	
		868	1.9	1.1	<p>Termination</p>	Solder Pad	
		<p>Polarization</p>	Linear		<p>Dimensions</p>	27.9 mm x 13.7 mm x 1.5 mm	
		<p>Wavelength</p>	1/4		<p>Op. Temp</p>	-40 °C to +130 °C	
		<p>Electrical Type</p>	Monopole		<p>Ground Plane</p>	38 mm x 84 mm	
		<p>Radiation Pattern</p>	Omnidirectional				
		<p>Impedance (Ohms)</p>	50				
 <p>916-SP2 SPLATCH® PAT. PEND. 1 GROUNDED LINE PLANAR ANTENNA</p> <p>ANT-916-SP</p>	<p>Overview 915 MHz Monopole Chip</p> <p>Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow</p>	<p>Frequency (MHz)</p>	<p>VSWR (max)</p>	<p>Peak Gain (dBi)</p>	<p>Mounting Type</p>	Surface Mount	
		915	1.9	1.4	<p>Termination</p>	Solder Pad	
		<p>Polarization</p>	Linear		<p>Dimensions</p>	27.9 mm x 13.7 mm x 1.5 mm	
		<p>Wavelength</p>	1/4		<p>Op. Temp</p>	-40 °C to +130 °C	
		<p>Electrical Type</p>	Monopole		<p>Ground Plane</p>	38 mm x 84 mm	
		<p>Radiation Pattern</p>	Omnidirectional				
		<p>Impedance (Ohms)</p>	50				

Sub-1 GHz LPWA & ISM

Internal/Embedded

Surface Mount

microSplat™ 410 Series


	Overview	Electrical Data	Mechanical Data																															
 <p>ANT-433-USP410</p>	Overview 433 MHz Monopole Chip Applications LoRaWAN, Weightless-P, Remote Control	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>433</td> <td>2.2</td> <td>-8.0</td> </tr> <tr> <td colspan="2">Polarization</td> <td>Linear</td> </tr> <tr> <td colspan="2">Wavelength</td> <td>1/4</td> </tr> <tr> <td colspan="2">Electrical Type</td> <td>Monopole</td> </tr> <tr> <td colspan="2">Radiation Pattern</td> <td>Omnidirectional</td> </tr> <tr> <td colspan="2">Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	433	2.2	-8.0	Polarization		Linear	Wavelength		1/4	Electrical Type		Monopole	Radiation Pattern		Omnidirectional	Impedance (Ohms)		50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Surface Mount</td> </tr> <tr> <td>Termination</td> <td>Solder Pad</td> </tr> <tr> <td>Dimensions</td> <td>13.2 mm x 9.1 mm x 2.9 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +130 °C</td> </tr> <tr> <td>Ground Plane</td> <td>38 mm x 84 mm</td> </tr> </tbody> </table>	Mounting Type	Surface Mount	Termination	Solder Pad	Dimensions	13.2 mm x 9.1 mm x 2.9 mm	Op. Temp	-40 °C to +130 °C	Ground Plane	38 mm x 84 mm
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 <p>ANT-868-USP410</p>	Overview 868 MHz Monopole Chip Applications LoRaWAN, Sigfox, Weightless-P	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>2.1</td> <td>0.7</td> </tr> <tr> <td colspan="2">Polarization</td> <td>Linear</td> </tr> <tr> <td colspan="2">Wavelength</td> <td>1/4</td> </tr> <tr> <td colspan="2">Electrical Type</td> <td>Monopole</td> </tr> <tr> <td colspan="2">Radiation Pattern</td> <td>Omnidirectional</td> </tr> <tr> <td colspan="2">Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	868	2.1	0.7	Polarization		Linear	Wavelength		1/4	Electrical Type		Monopole	Radiation Pattern		Omnidirectional	Impedance (Ohms)		50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Surface Mount</td> </tr> <tr> <td>Termination</td> <td>Solder Pad</td> </tr> <tr> <td>Dimensions</td> <td>13.2 mm x 9.1 mm x 2.9 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +130 °C</td> </tr> <tr> <td>Ground Plane</td> <td>38 mm x 84 mm</td> </tr> </tbody> </table>	Mounting Type	Surface Mount	Termination	Solder Pad	Dimensions	13.2 mm x 9.1 mm x 2.9 mm	Op. Temp	-40 °C to +130 °C	Ground Plane	38 mm x 84 mm
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 <p>ANT-915-USP410</p>	Overview 915 MHz Monopole Chip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>915</td> <td>2.7</td> <td>0.9</td> </tr> <tr> <td colspan="2">Polarization</td> <td>Linear</td> </tr> <tr> <td colspan="2">Wavelength</td> <td>1/4</td> </tr> <tr> <td colspan="2">Electrical Type</td> <td>Monopole</td> </tr> <tr> <td colspan="2">Radiation Pattern</td> <td>Omnidirectional</td> </tr> <tr> <td colspan="2">Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	915	2.7	0.9	Polarization		Linear	Wavelength		1/4	Electrical Type		Monopole	Radiation Pattern		Omnidirectional	Impedance (Ohms)		50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Surface Mount</td> </tr> <tr> <td>Termination</td> <td>Solder Pad</td> </tr> <tr> <td>Dimensions</td> <td>13.2 mm x 9.1 mm x 2.9 mm</td> </tr> <tr> <td>Op. Temp</td> <td>-40 °C to +130 °C</td> </tr> <tr> <td>Ground Plane</td> <td>38 mm x 84 mm</td> </tr> </tbody> </table>	Mounting Type	Surface Mount	Termination	Solder Pad	Dimensions	13.2 mm x 9.1 mm x 2.9 mm	Op. Temp	-40 °C to +130 °C	Ground Plane	38 mm x 84 mm
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Sub-1 GHz LPWA & ISM

Internal/Embedded

Surface Mount

microSplatch™ Series



		Electrical Data			Mechanical Data	
 <p>ANT-433-USP</p>	Overview	433 MHz Monopole Chip			Mounting Type	Surface Mount
	Applications	LoRaWAN, Weightless-P, Remote Control			Termination	Solder Pad
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Dimensions	12.7 mm x 9.1 mm x 2.6 mm
		433	1.9	-9.8	Op. Temp	-40 °C to +130 °C
		Polarization	Linear		Ground Plane	39 mm x 80 mm
	Wavelength	1/4				
	Electrical Type	Monopole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-USP</p>	Overview	868 MHz Monopole Chip			Mounting Type	Surface Mount
	Applications	LoRaWAN, Sigfox, Weightless-P			Termination	Solder Pad
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Dimensions	12.7 mm x 9.1 mm x 2.6 mm
		868	1.9	0.2	Op. Temp	-40 °C to +130 °C
		Polarization	Linear		Ground Plane	39 mm x 80 mm
	Wavelength	1/4				
	Electrical Type	Monopole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-USP</p>	Overview	915 MHz Monopole Chip			Mounting Type	Surface Mount
	Applications	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow			Termination	Solder Pad
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Dimensions	12.7 mm x 9.1 mm x 2.6 mm
		915	1.9	0.3	Op. Temp	-40 °C to +130 °C
		Polarization	Linear		Ground Plane	39 mm x 80 mm
	Wavelength	1/4				
	Electrical Type	Monopole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				



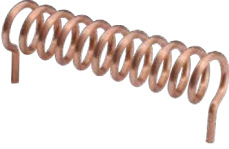


Sub-1 GHz LPWA & ISM

Internal/Embedded

Adhesive Mount

FPC Series

	Overview	Electrical Data			Mechanical Data		
 <p>ANT-433-FPC-UFL-100</p>	433 MHz Cellular Multiband Dipole Flexible Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive	
	Applications LoRaWAN, Weightless-P, Remote Control	410 - 430	4.1	-5.4	Termination	U.FL-Type Plug	
		430 - 435	2.5	-6.0		Dimensions	47.0 mm x 17.0 mm x 0.2 mm
		450 - 470	3.4	-2.4			Op. Temp
		Polarization	Linear		Cable Length	100.0 mm	
	Wavelength	1/2		Cable Type	1.13 mm		
	Electrical Type	Dipole					
	Radiation Pattern	Omnidirectional					
	Impedance (Ohms)	50					
 <p>ANT-8/9-FPC-UFL-100</p>	868 MHz 915 MHz Multiband Dipole Flexible Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive	
	Applications LoRaWAN, Weightless-P, Remote Control	862 - 876	2.0	-3.2	Termination	U.FL-Type Plug	
		902 - 930	1.6	-3.0		Dimensions	39.0 mm x 15.0 mm x 0.2 mm
		Polarization	Linear		Op. Temp		-40 °C to +85 °C
		Wavelength	1/2		Cable Length	100.0 mm	
	Electrical Type	Dipole		Cable Type	1.13 mm		
	Radiation Pattern	Omnidirectional					
	Impedance (Ohms)	50					

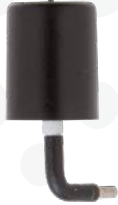
Internal/Embedded						
Through Hole Mount						
CPA Series						
 <p>ANT-868-CPA</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Radiating Ceramic Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
	Applications	868	9.5	1.4	Termination	Solder Pin
	LoRaWAN, Sigfox, Weightless-P	Polarization	RHCP		Dimensions	25.0 mm x 25.0 mm x 4.0 mm
		Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Radiating Patch		Ground Plane	70 mm x 70 mm	
	Radiation Pattern	Directional				
	Impedance (Ohms)	50				
 <p>ANT-915-CPA</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Radiating Ceramic Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
	Applications	915	1.2	1.5	Termination	Solder Pin
	LoRaWAN, ISM	Polarization	RHCP		Dimensions	25.0 mm x 25.0 mm x 4.0 mm
		Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Radiating Patch		Ground Plane	40 mm x 40 mm	
	Radiation Pattern	Directional				
	Impedance (Ohms)	50				
HE Series						
 <p>ANT-433-HEH</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Straight Monopole Helical	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
	Applications	433	2.0	1.9	Termination	Solder Pin
	LoRaWAN, Weightless-P, Remote Control	Polarization	Linear		Dimensions	38.1 mm x 8.9 mm
		Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	58 mm x 88 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-HEH</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Straight Monopole Helical	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
	Applications	868	2.2	5.6	Termination	Solder Pin
	LoRaWAN, Sigfox, Weightless-P	Polarization	Linear		Dimensions	25.4 mm x 8.9 mm
		Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38 mm x 84 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-HEH</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Straight Monopole Helical	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
	Applications	915	1.5	6.4	Termination	Solder Pin
	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization	Linear		Dimensions	25.4 mm x 8.9 mm
		Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38 mm x 84 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Sub-1 GHz LPWA & ISM

Internal/Embedded

Through Hole Mount

JJB Series



ANT-868-JJB-RA

Overview	Electrical Data			Mechanical Data	
868 MHz Right Angle Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P	868	2.0	-1.0	Termination	Solder Pin
	Polarization	Linear		Dimensions	14.5 mm x 7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	38 mm x 84 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-868-JJB-ST

Overview	Electrical Data			Mechanical Data	
868 MHz Straight Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P	868	2.0	-8.9	Termination	Solder Pin
	Polarization	Linear		Dimensions	17.6 mm x 7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	89 mm x 89 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-916-JJB-RA

Overview	Electrical Data			Mechanical Data	
915 MHz Right Angle Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.0	-0.5	Termination	Solder Pin
	Polarization	Linear		Dimensions	14.5 mm x 7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	38 mm x 84 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-916-JJB-ST

Overview	Electrical Data			Mechanical Data	
915 MHz Straight Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.0	-10.2	Termination	Solder Pin
	Polarization	Linear		Dimensions	17.6 mm x 7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	89 mm x 89 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Internal/Embedded

Through Hole Mount

JJB-HT Series



ANT-868-JJB-HT-T

Overview	Electrical Data			Mechanical Data	
868 MHz Straight Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P	868	2.0	-10.5	Termination	Solder Pin
	Polarization	Linear		Dimensions	15.5 mm x 7.1 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	89 mm x 89 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-916-JJB-HT-T

Overview	Electrical Data			Mechanical Data	
915 MHz Straight Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.0	-12.3	Termination	Solder Pin
	Polarization	Linear		Dimensions	15.5 mm x 7.1 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	89 mm x 89 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

VHETH Series



ANT-868-VHETH

Overview	Electrical Data			Mechanical Data	
868 MHz Straight Monopole Vertical Helical	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P	862 - 876	2.7	-0.7	Termination	Solder Pin
	Polarization	Linear		Dimensions	44.3 mm x Ø7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +80 °C
	Electrical Type	Monopole		Ground Plane	100 mm x 100 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-915-VHETH



Overview	Electrical Data			Mechanical Data	
915 MHz Straight Monopole Vertical Helical	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	902 - 930	2.3	-2.5	Termination	Solder Pin
	Polarization	Linear		Dimensions	44.3 mm x Ø7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +80 °C
	Electrical Type	Monopole		Ground Plane	100 mm x 100 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Sub-1 GHz LPWA & ISM




External

Connector Mount






CW Series

Image	Overview	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Termination*
 <p>ANT-433-CW-QW-*</p>	433 MHz Straight Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	433	2.0	3.3		Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug Dimensions 173.4 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50					
 <p>ANT-490-CW-QW-SMA</p>	490 MHz Straight Monopole Whip Applications LoRaWAN	490	2.0	1.3	72	Mounting Type Connector Mount Termination SMA Plug Dimensions 157.7 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50					
 <p>ANT-868-CW-QW-*</p>	868 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	868	2.0	1.2	65	Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug Dimensions 83.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50					
 <p>ANT-916-CW-QW-*</p>	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.0	1.6	68	Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50					

Sub-1 GHz LPWA & ISM

External						
Connector Mount						
HD Series						
 <p>ANT-433-CW-HD-*</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Weightless-P, Remote Control	433	2.0	0.7	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	88.0 mm x 13.5 mm
		Wavelength	1/4		Op. Temp	-30 °C to +70 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-CW-HD-SMA</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Sigfox, Weightless-P	868	2.0	-0.3	Termination	SMA Plug
		Polarization	Linear		Dimensions	75.0 mm x 13.5 mm
		Wavelength	1/4		Op. Temp	-30 °C to +70 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-CW-HD</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.0	-0.3	Termination	RP-SMA Plug
		Polarization	Linear		Dimensions	65.0 mm x 13.5 mm
		Wavelength	1/4		Op. Temp	-30 °C to +70 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Sub-1 GHz LPWA & ISM

External						
Connector Mount						
HW Series						
 <p>ANT-433-CW-HW-*</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	433	2.0	0.0	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Weightless-P, Remote Control	Polarization	Linear		Dimensions	120.0 mm x 10.7 mm
		Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-CW-HW-*</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Straight Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	868	2.0	0.0	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Sigfox, Weightless-P	Polarization	Linear		Dimensions	135.5 mm x 10.7 mm
		Wavelength	1/2		Op. Temp	-20 °C to +85 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-CW-HW-*</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Straight Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	915	2.0	1.2	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization	Linear		Dimensions	120.0 mm x 10.7 mm
		Wavelength	1/2		Op. Temp	-20 °C to +85 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
HWR Series						
 <p>ANT-433-CW-HWR-*</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	433	2.0	1.1	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Weightless-P, Remote Control	Polarization	Linear		Dimensions	142.0 mm x 10.0 mm
		Wavelength	1/4		Op. Temp	-30 °C to +80 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-CW-HWR-*</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Tilt/Swivel Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	868	2.0	-2.3	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Sigfox, Weightless-P	Polarization	Linear		Dimensions	142.0 mm x 10.0 mm
		Wavelength	1/2		Op. Temp	-30 °C to +80 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Sub-1 GHz LPWA & ISM

External

Connector Mount

HWR Series



ANT-916-CW-HWR*

Overview	Electrical Data			Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Termination*
915 MHz Tilt/Swivel Dipole Whip	915	2.0	1.2	Connector Mount	RP-SMA Plug
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow				SMA Plug	
				Dimensions	142.0 mm x 10.0 mm
				Op. Temp	-30 °C to +80 °C
				Ground Plane	102 mm x 102 mm
	Polarization	Linear			
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

IPW Series



ANT-8/9-IPW1-NP

Overview	Electrical Data			Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Termination
868 MHz/915 MHz LPWA Outdoor Dipole	868	1.9	1.2	Connector Mount	N Plug
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.7	1.6	Dimensions	178.0 mm x Ø25.0 mm
				Op. Temp	-40 °C to +70 °C
	Polarization	Linear			
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-8/9-IPW2-NP

Overview	Electrical Data			Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Termination
868 MHz/915 MHz LPWA Outdoor Dipole	868	1.9	0.6	Connector Mount	N Plug
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.7	1.5	Dimensions	132.0 mm x Ø24.0 mm
				Op. Temp	-40 °C to +70 °C
	Polarization	Linear			
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-8/9-IPW1-SMA

Overview	Electrical Data			Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Termination
868 MHz/915 MHz LPWA Tilt/Swivel Dipole Blade	868	1.6	2.9	Connector Mount	SMA Plug
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	3.2	2.5	Dimensions	203.0 mm x 13.2 mm x 13.2 mm
				Op. Temp	-30 °C to +70 °C
	Polarization	Linear			
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-915-IPW1-RPS




Overview	Electrical Data			Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Termination
915 MHz LPWA Tilt/Swivel Dipole Blade	915	1.8	2.7	Connector Mount	RP-SMA Plug
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow				Dimensions	203.0 mm x 13.2 mm x 13.2 mm
				Op. Temp	-30 °C to +70 °C
	Polarization	Linear			
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Sub-1 GHz LPWA & ISM

External

Connector Mount

OC Series

		Overview	Electrical Data			Mechanical Data	
 <p>ANT-433-OC-LG-*</p>	Overview 433 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Remote Control	Frequency (MHz) 433	VSWR (max) 2.1	Peak Gain (dBi) 0.7	Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug	Dimensions 193.5 mm x 10.0 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
	Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50						
 <p>ANT-868-OC-LG-*</p>	Overview 868 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency (MHz) 868	VSWR (max) 2.3	Peak Gain (dBi) 0.4	Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug	Dimensions 193.5 mm x 10.0 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
	Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50						
 <p>ANT-916-OC-LG-*</p>	Overview 915 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) 915	VSWR (max) 2.0	Peak Gain (dBi) 2.2	Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug	Dimensions 193.5 mm x 10.0 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
	Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50						

Sub-1 GHz LPWA & ISM

External						
Connector Mount						
RAH Series						
 <p>ANT-433-CW-RAH-*</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Weightless-P, Remote Control	433	1.9	-5.0	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	47.0 mm x 16.1 mm
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-CW-RAH-*</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Sigfox, Weightless-P	868	1.9	0.6	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	47.0 mm x 16.1 mm
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-CW-RAH-*</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.9	2.2	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	47.0 mm x 16.1 mm
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
RCL Series						
 <p>ANT-868-CW-RCL-SMA</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Sigfox, Weightless-P	868	1.9	4.1	Termination	SMA Plug
		Polarization	Linear		Dimensions	96.0 mm x 16.6 mm
		Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-CW-RCL-*</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.8	4.2	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	96.0 mm x 16.6 mm
		Wavelength	1/4		Op. Temp	-20 °C to +70 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Sub-1 GHz LPWA & ISM

External

Connector Mount

RCS Series



ANT-433-CW-RCS-*

Overview	Electrical Data			Mechanical Data	
433 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications LoRaWAN, Weightless-P, Remote Control	433	2.0	-2.9	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	53.5 mm x 16.6 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-868-CW-RCS-*




Overview	Electrical Data			Mechanical Data	
868 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications LoRaWAN, Sigfox, Weightless-P	868	2.0	3.6	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	53.5 mm x 16.6 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-916-CW-RCS

Overview	Electrical Data			Mechanical Data	
915 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.9	3.3	Termination	RP-SMA Plug
	Polarization	Linear		Dimensions	53.5 mm x 16.6 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Sub-1 GHz LPWA & ISM

External						
Connector Mount						
RH Series						
 <p>ANT-433-CW-RH-*</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	433	1.9	-5.6	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Weightless-P, Remote Control	Polarization	Linear		Dimensions	51.0 mm x 8.5 mm
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-CW-RH-*</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	868	1.9	-1.5	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Sigfox, Weightless-P	Polarization	Linear		Dimensions	51.0 mm x 8.5 mm
		Wavelength	1/4		Op. Temp	-30 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-CW-RH-*</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	915	1.9	-1.3	Termination*	RP-SMA Plug SMA Plug
	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization	Linear		Dimensions	51.0 mm x 8.5 mm
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Sub-1 GHz LPWA & ISM

External

Panel Mount

PML Series



ANT-868-PML*

Overview	Electrical Data			Mechanical Data	
868 MHz Tilt/Swivel Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications LoRaWAN, Sigfox, Weightless-P	868	1.9	-2.0	Termination*	U.FL-Type Plug Unterminated Cable
	Polarization	Linear		Dimensions	150.3 mm x 12.1 mm
	Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Dipole		Cable Length	305.0 mm
	Radiation Pattern	Omnidirectional		Cable Type*	RG-178 1.32 mm
	Impedance (Ohms)	50		Ground Plane	102 mm x 102 mm



ANT-916-PML*

Overview	Electrical Data			Mechanical Data	
915 MHz Tilt/Swivel Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.9	-0.4	Termination*	U.FL-Type Plug Unterminated Cable
	Polarization	Linear		Dimensions	150.3 mm x 12.1 mm
	Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Dipole		Cable Length	305.0 mm
	Radiation Pattern	Omnidirectional		Cable Type*	RG-178 1.32 mm
	Impedance (Ohms)	50		Ground Plane	102 mm x 102 mm

Sub-1 GHz LPWA & ISM

External							
Panel Mount							
PW Series							
 <p>ANT-433-PW-QW-*</p>	Overview 433 MHz Straight Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Electrical Data			Mechanical Data		
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount	
		433	2.0	3.3	Termination*	U.FL-Type Plug	
		Polarization	Linear		Dimensions	173.4 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	
 <p>ANT-490-PW-QW-*</p>	Overview 490 MHz Straight Monopole Whip Applications LoRaWAN	Electrical Data			Mechanical Data		
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount	
		490	2.0	1.3	Termination*	U.FL-Type Plug	
		Polarization	Linear		Dimensions	157.7 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	
 <p>ANT-868-PW-QW-*</p>	Overview 868 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		868	2.0	1.2	65	Termination*	U.FL-Type Plug
		Polarization	Linear		Dimensions	83.5 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	
 <p>ANT-916-PW-QW-*</p>	Overview 915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		915	2.0	1.6	68	Termination*	U.FL-Type Plug
		Polarization	Linear		Dimensions	80.5 mm x 14.5 mm	
		Wavelength	1/4		Op. Temp	-40 °C to +90 °C	
		Electrical Type	Monopole		Cable Length	216.0 mm	
		Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm	
		Impedance (Ohms)	50			RG-174	
					Ground Plane	102 mm x 102 mm	


Sub-1 GHz LPWA & ISM

External


Panel Mount

SPNF Series

New


 <p>ANT-8/9-SPNF1</p>	Overview 868 MHz 915 MHz Dipole Dome Applications LoRaWAN, Sigfox, Weightless-P	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>2.3</td> <td>3.0</td> </tr> <tr> <td>915</td> <td>2.9</td> <td>3.1</td> </tr> </tbody> </table> Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	868	2.3	3.0	915	2.9	3.1	Mechanical Data Mounting Type Panel Mount Termination N Jack Dimensions 70.8 mm x Ø40.2 mm Op. Temp -30 °C to +70 °C Ground Plane 300 mm x 300 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)									
868	2.3	3.0										
915	2.9	3.1										

New


 <p>ANT-8/9-SPNF2</p>	Overview 868 MHz 915 MHz Dipole Dome Applications LoRaWAN, Sigfox, Weightless-P	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>1.7</td> <td>3.3</td> </tr> <tr> <td>915</td> <td>2.1</td> <td>3.4</td> </tr> </tbody> </table> Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	868	1.7	3.3	915	2.1	3.4	Mechanical Data Mounting Type Panel Mount Termination N Jack Dimensions 83.1 mm x Ø42.0 mm Op. Temp -40 °C to +85 °C Ground Plane 300 mm x 300 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)									
868	1.7	3.3										
915	2.1	3.4										

SPS Series




New

 <p>ANT-433-SPS1-*</p>	Overview 433 MHz Dipole Puck Applications LoRaWAN, Weightless-P, Remote Control	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>410 - 430</td> <td>2.3</td> <td>-0.1</td> </tr> <tr> <td>430 - 435</td> <td>1.7</td> <td>-1.3</td> </tr> </tbody> </table> Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	410 - 430	2.3	-0.1	430 - 435	1.7	-1.3	Mechanical Data Mounting Type Panel Mount Termination SMA Plug Dimensions 23.3 mm x Ø54.7 mm Op. Temp -40 °C to +70 °C Cable Length* 1 m, 2 m or 3 m Cable Type RG-174/U Ground Plane 300 mm x 300 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)									
410 - 430	2.3	-0.1										
430 - 435	1.7	-1.3										

New

 <p>ANT-8/9-SPS1-*</p>	Overview 868 MHz 915 MHz Dipole Puck Applications LoRaWAN, Sigfox, Weightless-P	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>1.6</td> <td>5.1</td> </tr> <tr> <td>915</td> <td>2.4</td> <td>5.2</td> </tr> </tbody> </table> Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	868	1.6	5.1	915	2.4	5.2	Mechanical Data Mounting Type Panel Mount Termination SMA Plug Dimensions 23.3 mm x Ø54.7 mm Op. Temp -40 °C to +70 °C Cable Length* 1 m, 2 m or 3 m Cable Type RG-174/U Ground Plane 300 mm x 300 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)									
868	1.6	5.1										
915	2.4	5.2										

Sub-1 GHz LPWA & ISM

External						
Panel Mount						
WRT Series						
 <p>ANT-433-WRT*</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Straight Dipole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
	Applications LoRaWAN, Weightless-P, Remote Control	433	1.9	-0.9	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	26.8 mm x 19.0 mm
		Wavelength	1/2		Op. Temp	-30 °C to +90 °C
	Electrical Type	Dipole		Cable Length	216.0 mm	
	Radiation Pattern	Omnidirectional		Cable Type	RG-174	
	Impedance (Ohms)	50		Ground Plane	102 mm x 102 mm	
 <p>ANT-868-WRT*</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Straight Dipole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
	Applications LoRaWAN, Sigfox, Weightless-P	868	1.9	1.5	Termination*	RP-SMA Plug SMA Plug U.FL-Type Plug
		Polarization	Linear		Dimensions	10.0 mm x 19.0 mm
		Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Dipole		Cable Length	216.0 mm	
	Radiation Pattern	Omnidirectional		Cable Type*	RG-174	
	Impedance (Ohms)	50			1.32 mm	
				Ground Plane	102 mm x 102 mm	
 <p>ANT-916-WRT*</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Straight Dipole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.9	-0.1	Termination*	RP-SMA Plug SMA Plug U.FL-Type Plug
		Polarization	Linear		Dimensions	10.0 mm x 19.0 mm
		Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Dipole		Cable Length	216.0 mm	
	Radiation Pattern	Omnidirectional		Cable Type*	RG-174	
	Impedance (Ohms)	50			1.32 mm	
				Ground Plane	102 mm x 102 mm	

Sub-1 GHz LPWA & ISM

External

PCB Screw Mount

LP Series



ANT-433-PW-LP

Overview	Electrical Data			Mechanical Data	
433 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
Applications LoRaWAN, Weightless-P, Remote Control	433	1.9	-1.9	Termination	Screw Lug
	Polarization	Linear		Dimensions	50.5 mm x 10.4 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38.1 mm x 83.8 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-868-PW-LP




Overview	Electrical Data			Mechanical Data	
868 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
Applications LoRaWAN, Sigfox, Weightless-P	868	1.9	2.1	Termination	Screw Lug
	Polarization	Linear		Dimensions	50.5 mm x 10.4 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38.1 mm x 83.8 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-916-PW-LP

Overview	Electrical Data			Mechanical Data	
915 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.9	2.4	Termination	Screw Lug
	Polarization	Linear		Dimensions	50.5 mm x 10.4 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38.1 mm x 83.8 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Sub-1 GHz LPWA & ISM

External						
PCB Screw Mount						
RA Series						
 <p>ANT-433-PW-RA</p>	Overview	Electrical Data			Mechanical Data	
	433 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
	Applications	433	2.0	-0.7	Termination	Screw Lug
	LoRaWAN, Weightless-P, Remote Control	Polarization	Linear		Dimensions	131.5 mm x 7.0 mm
		Wavelength	1/4		Op. Temp	-20 °C to +60 °C
	Electrical Type	Monopole		Ground Plane	62.2 mm x 100.3 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-868-PW-RA</p>	Overview	Electrical Data			Mechanical Data	
	868 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
	Applications	868	1.9	4.0	Termination	Screw Lug
	LoRaWAN, Sigfox, Weightless-P	Polarization	Linear		Dimensions	99.0 mm x 7.0 mm
		Wavelength	1/4		Op. Temp	-20 °C to +60 °C
	Electrical Type	Monopole		Ground Plane	62.2 mm x 100.3 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 <p>ANT-916-PW-RA</p>	Overview	Electrical Data			Mechanical Data	
	915 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
	Applications	915	1.9	0.0	Termination	Screw Lug
	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization	Linear		Dimensions	99.0 mm x 7.0 mm
		Wavelength	1/4		Op. Temp	-20 °C to +60 °C
	Electrical Type	Monopole		Ground Plane	62.2 mm x 100.3 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Sub-1 GHz LPWA & ISM

Remote

Adhesive Mount

HDP-IND Series



ANT-8/9-HDP-2000-*

Overview	Electrical Data			Mechanical Data	
LPWA Dual-Band Straight Dipole Adhesive	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	862 - 876	1.8	0.6	Termination*	RP-SMA Plug SMA Plug
	902 - 930	1.9	0.4	Dimensions	104.0 mm x 17.0 mm x 4.2 mm
	Polarization	Linear		Op. Temp	-40 °C to +85 °C
	Wavelength	1/2		Cable Length	2.0 m
	Electrical Type	Dipole		Cable Type	RG-174/U
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

MHW Series



ANT-433-MHW-*

Overview	Electrical Data			Mechanical Data	
433 MHz Dipole Adhesive	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive
Applications LoRaWAN, Weightless-P, Remote Control	433	1.9	1.2	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	145.0 mm x 15.5 mm x 9.7 mm
	Wavelength	1/2		Op. Temp	-20 °C to + 70 °C
	Electrical Type	Dipole		Cable Length*	4.6 m
	Radiation Pattern	Omnidirectional			2.0 m
	Impedance (Ohms)	50		Cable Type	RG-174



ANT-868-MHW-*

Overview	Electrical Data			Mechanical Data	
868 MHz Dipole Adhesive	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive
Applications LoRaWAN, Sigfox, Weightless-P	868	1.3	4.0	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	138.0 mm x 15.5 mm x 9.7 mm
	Wavelength	1/2		Op. Temp	-20 °C to + 70 °C
	Electrical Type	Dipole		Cable Length*	4.6 m
	Radiation Pattern	Omnidirectional			2.0 m
	Impedance (Ohms)	50		Cable Type	RG-174



ANT-916-MHW-*


Overview	Electrical Data			Mechanical Data	
915 MHz Dipole Adhesive	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive
Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	1.9	5.4	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	138.0 mm x 15.5 mm x 9.7 mm
	Wavelength	1/2		Op. Temp	-20 °C to + 70 °C
	Electrical Type	Dipole		Cable Length*	4.6 m
	Radiation Pattern	Omnidirectional			2.0 m
	Impedance (Ohms)	50		Cable Type	RG-174

Sub-1 GHz LPWA & ISM

Remote


Adhesive Mount


VDP-IND Series

 <p>ANT-8/9-VDP-2000-*</p>	Overview LPWA Multiband Straight Dipole Adhesive	Electrical Data			Mechanical Data	
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) 862 - 876 902 - 930	VSWR (max) 1.8 2.1	Peak Gain (dBi) 4.5 3.5	Mounting Type Termination*	Adhesive RP-SMA Plug SMA Plug
		Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear 1/2 Dipole Omnidirectional 50		Dimensions Op. Temp Cable Length Cable Type	115.0 mm x 22.0 mm x 6.3 mm -40 °C to +85 °C 2.0 m RG-174/U

Bracket Mount

ID Series

 <p>ANT-868-ID-1000-*</p>	Overview 868 MHz Straight Dipole Whip	Electrical Data			Mechanical Data	
	Applications LoRaWAN, Sigfox, Weightless-P	Frequency (MHz) 868	VSWR (max) 1.9	Peak Gain (dBi) 0.6	Mounting Type Termination*	Bracket Mount RP-SMA Plug SMA Plug
		Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear 1/2 Dipole Omnidirectional 50		Dimensions Op. Temp Cable Length* Cable Type	124.6 mm x 31.2 mm x 11.9 mm -40 °C to +80 °C 1.0 m 2.0 m RG-58/U

 <p>ANT-916-ID-1000-*</p>	Overview 915 MHz Straight Dipole Whip	Electrical Data			Mechanical Data	
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) 915	VSWR (max) 1.9	Peak Gain (dBi) 1.6	Mounting Type Termination*	Bracket Mount RP-SMA Plug SMA Plug
		Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear 1/2 Dipole Omnidirectional 50		Dimensions Op. Temp Cable Length* Cable Type	124.6 mm x 31.2 mm x 11.9 mm -40 °C to +80 °C 1.0 m 2.0 m RG-58/U

WiFi/WLAN

Linx dual-band 2.4 GHz, 5 GHz and 6 GHz antenna solutions target wireless LAN (WiFi/WLAN) applications including:

- WiFi 6E
- WiFi 6
- WiFi 5
- WiFi 4
- U-NII 1-8
- 802.11b/g/n/ac

Internal/Embedded

Surface Mount

nanoSplat™ Series



ANT-DB1-nSP250-T

Overview	Electrical Data				Mechanical Data	
WiFi/WLAN Dual-Band Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Surface Mount
Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2500	2.0	2.7	65	Termination	Solder Pad
	5150 - 5725	2.2	4.3	60	Dimensions	9.6 mm x 8.4 mm x 1.1 mm
	5725 - 5850	2.4	3.7	70	Op. Temp	-40 °C to +130 °C
	Polarization	Linear			Ground Plane	40 mm x 20 mm
	Wavelength	1/4				
	Electrical Type	Monopole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Adhesive Mount

FPC Series



ANT-W63-FPC-UFL-100


Overview	Electrical Data				Mechanical Data	
WiFi/WLAN Multiband Dipole Flexible Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	1.2	6.1	80	Termination	U.FL-Type Plug
	5150 - 5850	3.3	6.1	74	Dimensions	110.0 mm x 20.0 mm x 0.2 mm
	5925 - 7125	2.6	6.9	69	Op. Temp	-40 °C to +85 °C
	Polarization	Linear			Cable Length	110.0 mm
	Wavelength	1/2			Cable Type	1.13 mm
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				



ANT-W63-FPC2-UFL-100


Overview	Electrical Data				Mechanical Data	
WiFi/WLAN Multiband Dipole Flexible Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	2.4	3.2	61	Termination	U.FL-Type Plug
	5150 - 5850	1.4	7.7	72	Dimensions	42.0 mm x 12.0 mm x 0.2 mm
	5925 - 7125	2.4	8.4	57	Op. Temp	-40 °C to +80 °C
	Polarization	Linear			Cable Length	100.0 mm
	Wavelength	1/2			Cable Type	1.13 mm
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Internal/Embedded
Adhesive Mount
RPC Series


 <p>ANT-W63RPC1-*</p>	Overview	Electrical Data				Mechanical Data	
	WiFi/WLAN Dual-Band Adhesive Dipole Rigid PCB	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	Applications	2400 - 2485	1.8	3.7	69	Termination*	RP-SMA Plug SMA Plug
	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	5150 - 5850	2.1	6.1	69	Dimensions	43.0 mm x 11.0 mm x 1.3 mm
		5925 - 7125	1.6	5.9	66	Op. Temp	-40 °C to +85 °C
	Polarization	Linear			Cable Length	150 mm, 100 mm, 200 mm	
	Wavelength	1/2			Cable Type	1.13 mm	
	Electrical Type	Dipole					
	Radiation Pattern	Omnidirectional					
	Impedance (Ohms)	50					

External
Connector Mount
IPW Series

New

 <p>ANT-W63-IPW1-NP</p>	Overview	Electrical Data				Mechanical Data	
	WiFi/WLAN Outdoor Multiband Dipole	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	Applications	2400 - 2485	4.1	3.2	64	Termination*	N Plug
	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	5150 - 5850	2.0	8.7	82	Dimensions	178.0 mm x Ø25.0 mm
		5925 - 7125	2.3	5.5	72	Op. Temp	-40 °C to +70 °C
	Polarization	Linear					
	Wavelength	1/2					
	Electrical Type	Dipole					
	Radiation Pattern	Omnidirectional					
	Impedance (Ohms)	50					

New

 <p>ANT-W63-IPW2-NP</p>	Overview	Electrical Data				Mechanical Data	
	WiFi/WLAN Outdoor Multiband Dipole	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	Applications	2400 - 2485	1.7	1.6	39	Termination*	N Plug
	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	5150 - 5850	1.7	5.0	62	Dimensions	132.0 mm x Ø24.0 mm
		5925 - 7125	2.8	5.6	52	Op. Temp	-30 °C to +70 °C
	Polarization	Linear					
	Wavelength	1/2					
	Electrical Type	Dipole					
	Radiation Pattern	Omnidirectional					
	Impedance (Ohms)	50					

WiFi/WLAN

External

Connector Mount

LCD Series



ANT-DB1-LCD-*

Overview	Electrical Data				Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	
WiFi/WLAN Dual-Band Hinged Dipole Whip	2400 - 2485	2.0	2.8	85	Connector Mount	RP-SMA Plug SMA Plug
Applications	5150 - 5725	2.0	4.5	70		
WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	5725 - 5850	2.0	2.9	65	Dimensions	83.1 mm x 10.0 mm
	Polarization	Linear			Op. Temp	-40 °C to +80 °C
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

MON Series

New



ANT-W63-MON-*

Overview	Electrical Data				Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	
WiFi 6E/WiFi 6 Multiband Hinged Monopole Whip	2400 - 2485	2.4	3.2	65	Connector Mount	RP-SMA Plug SMA Plug
Applications	5150 - 5850	2.3	4.2	62		
WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	5925 - 7125	2.0	3.4	51	Dimensions	72.0 mm x Ø9.5 mm
	Polarization	Linear			Op. Temp	-40 °C to +130 °C
	Wavelength	1/4			Ground Plane	102 mm x 102 mm
	Electrical Type	Monopole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

RAF Series



ANT-DB1-RAF-*

Overview	Electrical Data			Mechanical Data	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	
WiFi/WLAN Dual-Band Tilt/Swivel Dipole Whip	2400 - 2485	1.9	2.5	Connector Mount	RP-SMA Plug SMA Plug
Applications	5150 - 5850	1.9	4.6		
WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Polarization	Linear		Dimensions	104.9 mm x 11.0 mm
	Wavelength	1/2			
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

External
Connector Mount
WS Series

New



ANT-W63WS1-*

Overview	Electrical Data				Mechanical Data	
WiFi/WLAN Multiband Hinged Dipole Blade	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	2.3	7.7	58	Termination*	RP-SMA Plug
	5150 - 5850	1.7	5.8	62		SMA Plug
	5925 - 7125	2.3	4.7	59	Dimensions	85.5 mm x 16.4 mm x 11.5 mm
	Polarization	Linear			Op. Temp	-20 °C to +65 °C
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				



ANT-W63WS3-SMA

Overview	Electrical Data				Mechanical Data	
WiFi/WLAN Multiband Hinged Dipole Blade	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	2.3	2.4	40	Termination	SMA Plug
	5150 - 5850	1.8	5.0	66	Dimensions	135.7 mm x 20.1 mm x 10.0 mm
	5925 - 7125	3.5	5.3	58	Op. Temp	-20 °C to +65 °C
	Polarization	Linear				
	Wavelength	1/2				
	Electrical Type	Dipole				
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Panel Mount
LPD Series



ANT-DB1-LPD-125

Overview	Electrical Data				Mechanical Data	
WiFi 6E/WiFi 6 Multiband Hinged Dipole Blade	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	1.5	2.8	85	Termination	U.FL-Type Plug
	5150 - 5850	1.5	4.5	63	Dimensions	88.0 mm x 9.4 mm
		Polarization	Linear		Op. Temp	-20 °C to +85 °C
	Wavelength	1/2		Cable Length	125.0 mm	
	Electrical Type	Dipole		Cable Type	1.13 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

SPS Series

New



ANT-W63-SPS1-*

Overview	Electrical Data			Mechanical Data		
WiFi/WLAN Dual-Band Dipole Puck	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount	
Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	1.5	3.4	Termination	SMA Plug	
	5150 - 5850	1.5	5.1	Dimensions	23.3 mm x Ø54.7 mm	
	5925 - 7125	1.4	4.0	Op. Temp	-40 °C to +70 °C	
	Polarization	Linear		Cable Length*	1m, 2m or 3m	
	Wavelength	1/2		Cable Type	RG-174/U	
	Electrical Type	Dipole		Ground Plane	300 mm x 300 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

WiFi/WLAN

External

Panel Mount

WRT Series

New



ANT-DB1-WRT*

Overview

WiFi/WLAN Dual-Band
Straight Dipole Dome

Applications

WiFi 5, WiFi 4, 802.11,
Bluetooth, ZigBee, 802.15.4

Electrical Data

Frequency (MHz)	VSWR (max)	Peak Gain (dBi)
2400 - 2485	1.9	3.2
5150 - 5850	3.7	6.8
5925 - 7125	4.0	7.0
Polarization	Linear	
Wavelength	1/2	
Electrical Type	Dipole	
Radiation Pattern	Omnidirectional	
Impedance (Ohms)	50	

Mechanical Data

Mounting Type	Panel Mount
Termination*	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Type Plug
Dimensions	10.0 mm x Ø19.0 mm
Op. Temp	-40 °C to +90 °C
Cable Length	216.0 mm
Cable Type	RG-174, 1.13 mm, 1.32 mm
Ground Plane	102 mm x 102 mm

New



ANT-W63-WRT*

Overview

WiFi/WLAN Dual-Band
Straight Dipole Dome

Applications

WiFi 6E, WiFi 6, WiFi
5, WiFi 4, U-NII, 802.11,
Bluetooth, ZigBee, 802.15.4

Electrical Data

Frequency (MHz)	VSWR (max)	Peak Gain (dBi)
2400 - 2485	1.5	4.5
5150 - 5850	1.4	4.5
5925 - 7125	2.2	6.4
Polarization	Linear	
Wavelength	1/2	
Electrical Type	Dipole	
Radiation Pattern	Omnidirectional	
Impedance (Ohms)	50	

Mechanical Data

Mounting Type	Panel Mount
Termination*	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Type Plug
Dimensions	27.0 mm x Ø19.0 mm
Op. Temp	-40 °C to +90 °C
Cable Length	216.0 mm
Cable Type	RG-174, 1.13 mm, 1.32 mm
Ground Plane	102 mm x 102 mm

WRT-MON Series



ANT-DB1-WRT-MON*

Overview

WiFi/WLAN Dual-Band
Straight Dipole Dome

Applications

WiFi 5, WiFi 4, 802.11,
Bluetooth, ZigBee, 802.15.4

Electrical Data

Frequency (MHz)	VSWR (max)	Peak Gain (dBi)
2400 - 2485	2.0	1.0
5725 - 5850	2.0	2.8
Polarization	Linear	
Wavelength	1/4	
Electrical Type	Monopole	
Radiation Pattern	Omnidirectional	
Impedance (Ohms)	50	

Mechanical Data

Mounting Type	Panel Mount
Termination*	RP-SMA Plug SMA Plug U.FL-Type Plug
Dimensions	26.8 mm x Ø19.0 mm
Op. Temp	-40 °C to +85 °C
Cable Length	216.0 mm
Cable Type	RG-174
Ground Plane	102 mm x 102 mm

Remote

Adhesive Mount

HDP-IND Series



ANT-2/5-HDP-2000*

Overview	Electrical Data			Mechanical Data	
WiFi/WLAN Multiband Straight Dipole Adhesive	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive
Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	1.5	4.0	Termination*	RP-SMA Plug SMA Plug
	5150 - 5850	1.4	1.5	Dimensions	104.0 mm x 17.0 mm x 4.2 mm
	Polarization	Linear		Op. Temp	-40 °C to +85 °C
	Wavelength	1/2		Cable Length	2.0 m
	Electrical Type	Dipole		Cable Type	RG-174/U
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

VDP-IND Series



ANT-2/5-VDP-2000*

Overview	Electrical Data			Mechanical Data	
WiFi/WLAN Multiband Straight Dipole Adhesive	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Adhesive
Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	1.5	2.4	Termination*	RP-SMA Plug SMA Plug
	5150 - 5850	1.4	-0.6	Dimensions	115.0 mm x 22.0 mm x 6.3 mm
	Polarization	Linear		Op. Temp	-40 °C to +85 °C
	Wavelength	1/2		Cable Length	2.0 m
	Electrical Type	Dipole		Cable Type	RG-174/U
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

2.4 GHz ISM

Linx 2.4 GHz single-band antennas provide a broad range of styles, mounting, termination and levels of performance to accommodate ISM applications including:

- Bluetooth®
- ZigBee®
- IEEE 802.11b/g
- IEEE 802.15.4

Internal/Embedded

Surface Mount

CHP Series



ANT-2.45-CHP-T

Overview	Electrical Data			Mechanical Data	
2400 MHz Monopole Ceramic Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	0.5	Termination	Solder Pad
	Polarization	Linear		Dimensions	2.2 mm x 6.5 mm x 1.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	30 mm x 30 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

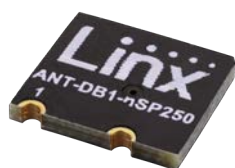
microSplatch™ Series



ANT-2.4-USP

Overview	Electrical Data			Mechanical Data	
2400 MHz Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	3.8	Termination	Solder Pad
	Polarization	Linear		Dimensions	12.7 mm x 9.1 mm x 1.6 mm
	Wavelength	1/4		Op. Temp	-40 °C to +130 °C
	Electrical Type	Monopole		Ground Plane	19.6 mm x 38.7 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

nanoSplatch™ Series



ANT-DB1-nSP250-T

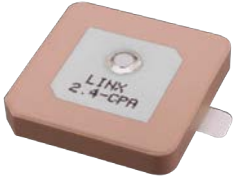
Overview	Electrical Data				Mechanical Data	
2400 MHz Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Surface Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4, 802.11	2400 - 2485	2.0	2.7	65	Termination	Solder Pad
	Polarization	Linear		Dimensions	9.6 mm x 8.4 mm x 1.1 mm	
	Wavelength	1/4		Op. Temp	-40 °C to +130 °C	
	Electrical Type	Monopole		Ground Plane	40 mm x 20 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

2.4 GHz ISM

Internal/Embedded

Through Hole Mount

CPA Series



ANT-2.4-CPA

Overview	Electrical Data				Mechanical Data	
2400 MHz Radiating Ceramic Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Through Hole
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.7	5.5	88	Termination	Solder Pin
	Polarization	RHCP			Dimensions	20.0 mm x 20.0 mm x 4.0 mm
	Wavelength	1/4			Op. Temp	-40 °C to +85 °C
	Electrical Type	Radiating Patch			Ground Plane	40 mm x 40 mm
	Radiation Pattern	Directional				
	Impedance (Ohms)	50				

JJB Series



ANT-2.4-JJB-RA

Overview	Electrical Data			Mechanical Data	
2400 MHz Right Angle Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	3.3	Termination	Solder Pin
	Polarization	Linear		Dimensions	14.5 mm x 7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	38 mm x 84 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-2.4-JJB-ST


Overview	Electrical Data			Mechanical Data	
2400 MHz Straight Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	-1.5	Termination	Solder Pin
	Polarization	Linear		Dimensions	17.6 mm x 7.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	89 mm x 89 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

2.4 GHz ISM


External

Connector Mount


CT Series


 <p>ANT-2.4-CW-CT*</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Straight Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	2.8	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	113.0 mm x 10.0 mm
		Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

CW Series

 <p>ANT-2.4-CW-QW*</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	1.1	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	105.0 mm x 14.5 mm
		Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

HW Series

 <p>ANT-2.4-CW-HW*</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Straight Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	3.2	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	120.0 mm x 10.7 mm
		Wavelength	1/2		Op. Temp	-30 °C to +85 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

 <p>ANT-2.4-CW-HW-T</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Straight Dipole Whip, added UV resistance	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	3.2	Termination	RP-SMA Plug
		Polarization	Linear		Dimensions	120.0 mm x 10.7 mm
		Wavelength	1/4		Op. Temp	-30 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm	
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

2.4 GHz ISM

External

Connector Mount

HWR Series



ANT-2.4-CW-HWR-*

Overview	Electrical Data			Mechanical Data	
2400 MHz Tilt/Swivel Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	3.2	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	142.0 mm x 10.0 mm
	Wavelength	1/2		Op. Temp	-30 °C to +80 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

LCW Series



ANT-2.4-LCW-*

Overview	Electrical Data			Mechanical Data	
2400 MHz Hinged Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	2.8	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	83.1 mm x 10.0 mm
	Wavelength	1/2		Op. Temp	-40 °C to +80 °C
	Electrical Type	Dipole			
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

OC Series



ANT-2.4-OC-LG-*

Overview	Electrical Data			Mechanical Data	
2400 MHz Tilt/Swivel Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	4.0	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	193.5 mm x 10.0 mm
	Wavelength	1/2		Op. Temp	-20 °C to +85 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

2.4 GHz ISM

External

Connector Mount

RAH Series



ANT-2.4-CW-RAH*

Overview	Electrical Data			Mechanical Data	
2400 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	2.0	1.6	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	25.6 mm x 17.1 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

RCL Series



ANT-2.4-CW-RCL*

Overview	Electrical Data			Mechanical Data	
2400 MHz Right Angle Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	1.1	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	88.0 mm x 16.6 mm
	Wavelength	1/2		Op. Temp	-20 °C to +85 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

RCS Series



ANT-2.4-CW-RCS*


Overview	Electrical Data			Mechanical Data	
2400 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	-0.2	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	53.5 mm x 16.6 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

2.4 GHz ISM


External

Connector Mount

RCT Series


 <p>ANT-2.4-CW-RCT*</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Right Angle Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	2400 - 2485	1.9	2.2	Termination*	RP-SMA Plug SMA Plug
	Bluetooth, ZigBee, 802.15.4, WiFi 4	Polarization	Linear		Dimensions	113.0 mm x 10.0 mm
		Wavelength	1/2		Op. Temp	-40 °C to +90 °C
		Electrical Type	Dipole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

RH Series


 <p>ANT-2.4-CW-RH*</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	2400 - 2485	2.0	-0.9	Termination*	RP-SMA Plug SMA Plug
	Bluetooth, ZigBee, 802.15.4, WiFi 4	Polarization	Linear		Dimensions	27.0 mm x 7.8 mm
		Wavelength	1/4		Op. Temp	-30 °C to +90 °C
		Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

Panel Mount

LPW Series

 <p>ANT-2.4-LPW-125</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Hinged Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
	Applications	2400 - 2485	1.5	2.8	Termination	U.FL-Type Plug
	Bluetooth, ZigBee, 802.15.4, WiFi 4	Polarization	Linear		Dimensions	88.0 mm x 9.4 mm
		Wavelength	1/2		Op. Temp	-20 °C to +85 °C
		Electrical Type	Dipole		Cable Length	125.0 mm
	Radiation Pattern	Omnidirectional			Cable Type	1.13 mm
	Impedance (Ohms)	50				

PML Series

 <p>ANT-2.4-PML*</p>	Overview	Electrical Data			Mechanical Data	
	2400 MHz Tilt/Swivel Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
	Applications	2400 - 2485	1.9	2.4	Termination*	U.FL-Type Plug Unterminated Cable
	Bluetooth, ZigBee, 802.15.4, WiFi 4	Polarization	Linear		Dimensions	150.3 mm x 12.1 mm
		Wavelength	1/2		Op. Temp	-40 °C to +90 °C
		Electrical Type	Dipole		Cable Length	305.0 mm
	Radiation Pattern	Omnidirectional			Cable Type*	1.32 mm RG-178
	Impedance (Ohms)	50			Ground Plane	102 mm x 102 mm

2.4 GHz ISM

External

Panel Mount

PW Series



ANT-2.4-PW-QW-*

Overview	Electrical Data			Mechanical Data	
2400 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	1.6	Termination*	U.FL-Type Plug Unterminated Cable
	Polarization	Linear		Dimensions	105.0 mm x 14.5 mm
	Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Cable Length	216.0 mm
	Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm RG-174
	Impedance (Ohms)	50		Ground Plane	102 mm x 102 mm

WRT Series



ANT-2.4-WRT-*

Overview	Electrical Data			Mechanical Data	
2400 MHz Straight Dipole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	3.5	Termination*	RP-SMA Plug SMA Plug U.FL-Type Plug
	Polarization	Linear		Dimensions	10.0 mm x 19.0 mm
	Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Dipole		Cable Length	216.0 mm
	Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm RG-174
	Impedance (Ohms)	50			

WRT-MON Series



ANT-2.4-WRT-MON-*

Overview	Electrical Data			Mechanical Data	
2400 MHz Straight Monopole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	0.8	Termination*	RP-SMA Plug SMA Plug U.FL-Type Plug
	Polarization	Linear		Dimensions	26.8 mm x 19.0 mm
	Wavelength	1/4		Op. Temp	-40 °C to +85 °C
	Electrical Type	Monopole		Cable Length	216.0 mm
	Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm RG-174
	Impedance (Ohms)	50		Ground Plane	102 mm x 102 mm

PCB Screw Mount

LP Series



ANT-2.4-PW-LP

Overview	Electrical Data			Mechanical Data	
2400 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	-1.9	Termination	Screw Lug
	Polarization	Linear		Dimensions	50.5 mm x 10.4 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38.1 mm x 83.8 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

2.4 GHz ISM

Remote

Base Screw Mount

ELE Series



ANT-ELE-S01-011

Overview	Electrical Data		Mechanical Data	
2400 MHz Straight Dipole Whip	Frequency (MHz)	VSWR (max)	Mounting Type	Base Screw
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4 Use with MAG Series Remote Mount Base	2400 - 2485	2.0	Termination	Screw Base
	Polarization	Linear	Dimensions	25.9 mm x 10.0 mm
	Wavelength	1/2	Op. Temp	-40 °C to +80 °C
	Electrical Type	Dipole		
	Radiation Pattern	Omnidirectional		
	Impedance (Ohms)	50		

Bracket Mount

ID Series



ANT-2.4-ID-1000-*

Overview	Electrical Data			Mechanical Data	
2400 MHz Straight Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Bracket Mount
Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	2400 - 2485	1.9	3.0	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	119.4 mm x 31.2 mm x 12.4 mm
	Wavelength	1/2		Op. Temp	-40 °C to +80 °C
	Electrical Type	Dipole		Cable Length*	1.0 m 2.0 m
	Radiation Pattern	Omnidirectional		Cable Type	RG-58/U
	Impedance (Ohms)	50			

GNSS Antennas


Linx offers global navigation satellite system (GNSS) antennas for systems including:

- GPS
- Galileo
- GLONASS
- COMPASS/Beidou

Internal/Embedded


Surface Mount


SM-CP Series

 <p>ANT-GNSSCP-SM12L1</p>	Overview L1/E1/B1 Dual-Band Ceramic Patch	Electrical Data			Mechanical Data	
	Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency (MHz) 1567.24 - 1583.6 1593.31 - 1608.68	VSWR (max) 7.0 6.1	Peak Gain (dBi) 2.9 1.0	Mounting Type Surface Mount	Termination Solder Pad
		Polarization RHCP			Op. Temp -40 °C to +105 °C	Ground Plane 50 mm x 50 mm
		Wavelength 1/4				
		Electrical Type Radiating Patch				
		Radiation Pattern Directional				
		Impedance (Ohms) 50				

Adhesive/Mechanical Mount

SM-CP Series

 <p>ANT-GNCP-CA158L160</p>	Overview L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA)	Electrical Data			Mechanical Data	
	Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency (MHz) 1559.05 - 1563.14 1567.24 - 1583.60 1587.69 - 1591.79	VSWR (max) 3.5 2.4 1.5	Peak Gain (dBi) 6.7 13.9 13.9	Mounting Type Surface Mount	Termination U.FL-Type Plug
		Polarization RHCP			Op. Temp -40 °C to +85 °C	Cable Length 60 mm
		Wavelength 1/4			Cable Type 1.13 mm	
		Electrical Type Radiating Patch				
		Radiation Pattern Directional				
		Impedance (Ohms) 50				

 <p>ANT-GNCP-CA188L165</p>	Overview L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA)	Electrical Data			Mechanical Data	
	Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency (MHz) 1559.05 - 1563.14 1567.24 - 1583.60 1587.69 - 1591.79	VSWR (max) 1.1 1.1 1.1	Peak Gain (dBi) 10.6 13.7 14.1	Mounting Type Surface Mount	Termination U.FL-Type Plug
		Polarization RHCP			Op. Temp -40 °C to +85 °C	Cable Length 65 mm
		Wavelength 1/4			Cable Type 1.13 mm	
		Electrical Type Radiating Patch				
		Radiation Pattern Directional				
		Impedance (Ohms) 50				

Internal/Embedded

Adhesive/Mechanical Mount

SM-CP Series

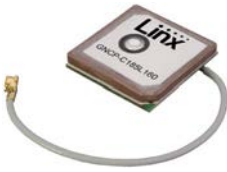
New



ANT-GNCP-C106L160

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	1561	1.8	14.1	Termination	MHF1/U.FL-Type Plug
	1575	2.1	24.4	Dimensions	10.0 mm x 10.0 mm x 6.0 mm
	1601/1602	3.1	26.4	Op. Temp	-40 °C to +85 °C
	Polarization	RHCP		Cable Length	60 mm
	Wavelength	1/4		Cable Type	0.81 mm
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			

New



ANT-GNCP-C185L160

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	1561	1.6	9.3	Termination	MHF1/U.FL-Type Plug
	1575	1.7	16.3	Dimensions	18.0 mm x 18.0 mm x 4.5 mm
	1601/1602	1.7	13.8	Op. Temp	-40 °C to +85 °C
	Polarization	RHCP		Cable Length	60 mm
	Wavelength	1/4		Cable Type	0.81 mm
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			

New



ANT-GNCP-C257L160

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	1561	1.5	27.8	Termination	MHF1/U.FL-Type Plug
	1575	1.7	34.5	Dimensions	25.1 mm x 25.1 mm x 7.4 mm
	1601/1602	2.1	36.1	Op. Temp	-40 °C to +85 °C
	Polarization	RHCP		Cable Length	60 mm
	Wavelength	1/4		Cable Type	1.13 mm
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			

New



ANT-GNCP-C357L160

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	1561	1.5	27.2	Termination	MHF1/U.FL-Type Plug
	1575	1.7	34.7	Dimensions	35.0 mm x 35.0 mm x 6.9 mm
	1601/1602	1.3	34.0	Op. Temp	-40 °C to +85 °C
	Polarization	RHCP		Cable Length	60 mm
	Wavelength	1/4		Cable Type	1.13 mm
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			

GNSS Antennas

Internal/Embedded

Adhesive/Mechanical Mount

SM-CP Series

New



ANT-GNCP-C25L12100

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 L2/E5/B2B Multiband Active Ceramic Patch with integrated low noise amplifier (LNA)	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	1202/1207	2.3	29.6	Termination	MHF1/U.FL-Type Plug
Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1228	2.3	29.6	Dimensions	25.1 mm x 25.1 mm x 12.0 mm
	1246/1248	1.5	17.1	Op. Temp	-40 °C to +85 °C
	1561	1.6	23.8	Cable Length	100 mm
	1575	1.6	33.0	Cable Type	1.13 mm
	1601/1602	1.4	29.2		
	Polarization	RHCP			
	Wavelength	1/4			
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			

New



ANT-GNCP-C25L15100

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 L5/E5/B2A Multiband Active Ceramic Patch with integrated low noise amplifier (LNA)	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	1176	1.8	27.3	Termination	MHF1/U.FL-Type Plug
Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1561	1.3	20.2	Dimensions	25.1 mm x 25.1 mm x 12.0 mm
	1575	1.3	31.7	Op. Temp	-40 °C to +85 °C
	1601/1602	1.2	14.8	Cable Length	100 mm
	Polarization	RHCP		Cable Type	1.13 mm
	Wavelength	1/4			
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			

New



ANT-GNCP-C25L125100

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 L2/E5/B2B L5/E5/B2A Multiband Active Ceramic Patch with integrated low noise amplifier (LNA)	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	1176	2.2	30.8	Termination	MHF1/U.FL-Type Plug
Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1202/1207	1.4	18.2	Dimensions	25.0 mm x 25.0 mm x 12.0 mm
	1228	1.6	25.0	Op. Temp	-40 °C to +85 °C
	1246/1248	1.3	10.2	Cable Length	100 mm
	1561	1.4	31.5	Cable Type	1.13 mm
	1575	1.7	31.6		
	1601/1602	1.4	28.4		
	Polarization	RHCP			
	Wavelength	1/4			
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			

Internal/Embedded

Through Hole Mount

TH-CP Series

New



ANT-GNCP-TH25AL12

Overview	Electrical Data			Mechanical Data	
L1/E1/B1 L2/L2C Multiband Ceramic Patch	Band (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole
Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1228	12.1	-1.9	Termination	Solder Pin
	1246/1248	4.5	-0.9	Dimensions	25.1 mm x 25.1 mm x 8.0 mm
	1561	5.0	0.9	Op. Temp	-40 °C to +105 °C
	1575	5.0	3.1	Ground Plane	70 mm x 70 mm
	1601/1602	2.1	4.0		
	Polarization	RHCP			
	Wavelength	1/4			
	Electrical Type	Radiating Patch			
	Radiation Pattern	Directional			
	Impedance (Ohms)	50			



ANT-GNCP-TH258L15

Overview	Electrical Data			Mechanical Data		
L1/L5/E1/B1 Multiband Ceramic Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole	
Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1553.10 - 1608.68	5.9	5.6	Termination	Solder Pin	
	1170 - 1183	6.4	1.0	Dimensions	25.1 mm x 25.1 mm x 8.0 mm	
		Polarization	RHCP		Op. Temp	-40 °C to +105 °C
		Wavelength	1/4		Ground Plane	70 mm x 70 mm
		Electrical Type	Radiating Patch			
	Radiation Pattern	Directional				
	Impedance (Ohms)	50				



ANT-GNSSCP-TH18L1

Overview	Electrical Data			Mechanical Data		
L1/E1/B1 Multiband Ceramic Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole	
Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1567.24 - 1583.6	2.8	5.1	Termination	Solder Pin	
	1587.69 - 1591.79	3.2	2.8	Dimensions	18.0 mm x 18.0 mm x 4.0 mm	
	1593.31 - 1608.68	2.9	4.0	Op. Temp	-40 °C to +105 °C	
		Polarization	RHCP		Ground Plane	70 mm x 70 mm
		Wavelength	1/4			
	Electrical Type	Radiating Patch				
	Radiation Pattern	Directional				
	Impedance (Ohms)	50				



ANT-GNSSCP-TH25L1

Overview	Electrical Data			Mechanical Data		
L1/E1/B1 Multiband Ceramic Patch	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Through Hole	
Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1567.24 - 1583.6	5.6	3.5	Termination	Solder Pin	
	1587.69 - 1591.79	2.1	4.0	Dimensions	25.1 mm x 25.1 mm x 4.0 mm	
	1593.31 - 1608.68	1.7	4.0	Op. Temp	-40 °C to +105 °C	
		Polarization	RHCP		Ground Plane	70 mm x 70 mm
		Wavelength	1/4			
	Electrical Type	Radiating Patch				
	Radiation Pattern	Directional				
	Impedance (Ohms)	50				

GNSS Antennas

Remote

Magnetic Mount

SH2 Series




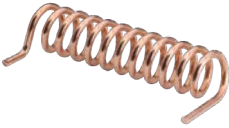
ANT-GPS-SH2*

Overview	Electrical Data			Mechanical Data	
1553 MHz Radiating Patch Puck	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Magnetic
Applications GPS, Galileo, GLONASS, COMPASS, Beidou	1553 - 1609	1.5	5.0	Termination*	SMA Plug MCX Plug MMCX Plug
	Polarization	RHCP		Dimensions	45.0 mm x 36.5 mm x 12.5 mm
	Wavelength	1/2		Op. Temp	-40 °C to +85 °C
	Electrical Type	Radiating Patch		Cable Length	3.0 m
	Radiation Pattern	Omnidirectional		Cable Type	RG-174U
	Impedance (Ohms)	50			

Other Antennas

Linx provides a number of antennas for other uses including medical applications, unlicensed applications and remote control applications including:

- 315 MHz
- 403 MHz
- 418 MHz
- 458 MHz
- 1.4 GHz

Internal/Embedded				
Surface Mount				
HE Series				
 <p>ANT-315-HESM</p>	Overview	Electrical Data		Mechanical Data
	315 MHz Straight Monopole Helical	Frequency (MHz)	VSWR (max)	Mounting Type Surface Mount
	Applications	315	2.0	Termination Solder Pad
	Remote Control	Polarization	Linear	Dimensions 38.1 mm x 8.9 mm
		Wavelength	1/4	Op. Temp -40 °C to +85 °C
	Electrical Type	Monopole	Ground Plane 76.2 mm x 241.3 mm	
	Radiation Pattern	Omnidirectional		
	Impedance (Ohms)	50		
 <p>ANT-418-HESM</p>	Overview	Electrical Data		Mechanical Data
	418 MHz Straight Monopole Helical	Frequency (MHz)	VSWR (max)	Mounting Type Surface Mount
	Applications	418	2.0	Termination Solder Pad
	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Polarization	Linear	Dimensions 38.1 mm x 8.9 mm
		Wavelength	1/4	Op. Temp -40 °C to +85 °C
	Electrical Type	Monopole	Ground Plane 76.2 mm x 190.5 mm	
	Radiation Pattern	Omnidirectional		
	Impedance (Ohms)	50		

Other Antennas



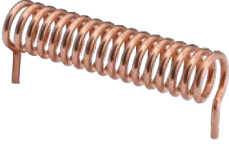
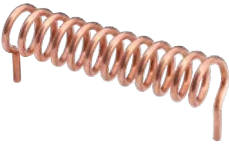
Internal/Embedded

Surface Mount




Splatch® Series

		Overview	Electrical Data	Mechanical Data	
 <p>ANT-315-SP</p>	Overview 315 MHz Monopole Chip Applications Remote Control	Frequency (MHz) 315 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.9 	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm	
 <p>ANT-403-SP</p>	Overview 403 MHz Monopole Chip	Frequency (MHz) 403 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.9 	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm	
 <p>ANT-418-SP</p>	Overview 418 MHz Monopole Chip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency (MHz) 418 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.9 	Peak Gain (dBi) -8.0 	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm
 <p>ANT-458-SP</p>	Overview 458 MHz Monopole Chip Applications PMR, Personal Mobile Radio	Frequency (MHz) 458 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.9 	Peak Gain (dBi) -5.4 	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm




Other Antennas

Internal/Embedded						
Surface Mount						
microSplat™ Series						
 <p>ANT-403-USP</p>	Overview 403 MHz Monopole Chip	Electrical Data			Mechanical Data	
		Frequency (MHz) 403	VSWR (max) 2.0	Peak Gain (dBi) -8.7	Mounting Type Surface Mount	Termination Solder Pad
	Polarization Linear	Wavelength 1/4		Dimensions 12.7 mm x 9.1 mm x 2.6 mm	Op. Temp -40 °C to +130 °C	
	Electrical Type Monopole	Radiation Pattern Omnidirectional		Ground Plane 39 mm x 80 mm		
	Impedance (Ohms) 50					
 <p>ANT-418-USP</p>	Overview 418 MHz Monopole Chip	Electrical Data			Mechanical Data	
	Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency (MHz) 418	VSWR (max) 2.0	Peak Gain (dBi) -8.9	Mounting Type Surface Mount	Termination Solder Pad
	Polarization Linear	Wavelength 1/4		Dimensions 12.7 mm x 9.1 mm x 2.6 mm	Op. Temp -40 °C to +130 °C	
	Electrical Type Monopole	Radiation Pattern Omnidirectional		Ground Plane 39 mm x 80 mm		
	Impedance (Ohms) 50					
Through Hole Mount						
HE Series						
 <p>ANT-315-HETH</p>	Overview 315 MHz Straight Monopole Helical	Electrical Data			Mechanical Data	
	Applications Remote Control	Frequency (MHz) 315	VSWR (max) 2.0		Mounting Type Through Hole	Termination Solder Pin
	Polarization Linear	Wavelength 1/4		Dimensions 38.1 mm x 8.9 mm	Op. Temp -40 °C to +85 °C	
	Electrical Type Monopole	Radiation Pattern Omnidirectional		Ground Plane 76.2 mm x 241.3 mm		
	Impedance (Ohms) 50					
 <p>ANT-418-HETH</p>	Overview 418 MHz Straight Monopole Helical	Electrical Data			Mechanical Data	
	Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency (MHz) 418	VSWR (max) 2.0	Peak Gain (dBi) 1.7	Mounting Type Through Hole	Termination Solder Pin
	Polarization Linear	Wavelength 1/4		Dimensions 38.1 mm x 8.9 mm	Op. Temp -40 °C to +85 °C	
	Electrical Type Monopole	Radiation Pattern Omnidirectional		Ground Plane 76.2 mm x 190.5 mm		
	Impedance (Ohms) 50					

Other Antennas

External										
Connector Mount										
CW Series										
 <p>ANT-418-CW-QW*</p>	Overview 418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>418</td> <td>2.0</td> <td>2.9</td> </tr> </tbody> </table> Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	418	2.0	2.9	Mechanical Data Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug Dimensions 177.2 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)							
418	2.0	2.9								
HD Series										
 <p>ANT-315-CW-HD</p>	Overview 315 MHz Straight Monopole Whip Applications Remote Control	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> </tr> </thead> <tbody> <tr> <td>315</td> <td>2.0</td> </tr> </tbody> </table> Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	315	2.0	Mechanical Data Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 117.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm			
	Frequency (MHz)	VSWR (max)								
315	2.0									
 <p>ANT-418-CW-HD</p>	Overview 418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>418</td> <td>2.0</td> <td>-1.8</td> </tr> </tbody> </table> Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	418	2.0	-1.8	Mechanical Data Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 90.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm	
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)							
418	2.0	-1.8								

Other Antennas

External						
Connector Mount						
HW Series						
 <p>ANT-315-CW-HW*</p>	Overview	Electrical Data			Mechanical Data	
	315 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	315	2.0	0.0	Termination*	RP-SMA Plug SMA Plug
	Remote Control	Polarization	Linear		Dimensions	120.0 mm x 10.7 mm
		Wavelength	1/4		Op. Temp	-20 °C to +80 °C
		Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
		Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50				
 <p>ANT-418-CW-HW*</p>	Overview	Electrical Data			Mechanical Data	
	418 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	Applications	418	2.0	0.0	Termination*	RP-SMA Plug SMA Plug
	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Polarization	Linear		Dimensions	120.0 mm x 10.7 mm
		Wavelength	1/4		Op. Temp	-20 °C to +85 °C
		Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
		Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50				
 <p>ANT-1.4-CW-HW*</p>	Overview	Electrical Data			Mechanical Data	
	1400 MHz Straight Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
		1400	2.0	0.7	Termination*	RP-SMA Plug SMA Plug
		Polarization	Linear		Dimensions	120.0 mm x 10.7 mm
		Wavelength	1/2		Op. Temp	-20 °C to +85 °C
		Electrical Type	Dipole		Ground Plane	102 mm x 102 mm
		Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50				

Other Antennas

External

Connector Mount

HWR Series



ANT-315-CW-HWR*

Overview	Electrical Data			Mechanical Data	
315 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Remote Control	315	2.0	0.0	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	142.0 mm x 10.0 mm
	Wavelength	1/4		Op. Temp	-30 °C to +80 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-418-CW-HWR*

Overview	Electrical Data			Mechanical Data	
418 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	418	2.0	0.7	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	142.0 mm x 10.0 mm
	Wavelength	1/4		Op. Temp	-30 °C to +80 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-1.4-CW-HWR*

Overview	Electrical Data			Mechanical Data	
1400 MHz Tilt/Swivel Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
	1400	2.0	2.4	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	142.0 mm x 10.0 mm
	Wavelength	1/2		Op. Temp	-30 °C to +80 °C
	Electrical Type	Dipole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

RAH Series



ANT-418-CW-RAH

Overview	Electrical Data			Mechanical Data	
418 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Connector Mount
Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	418	1.9	-6.1	Termination	RP-SMA Plug
	Polarization	Linear		Dimensions	47.0 mm x 16.1 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Ground Plane	102 mm x 102 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Other Antennas

External																									
Connector Mount																									
RCS Series																									
 <p>ANT-315-CW-RCS</p>	Overview 315 MHz Right Angle Monopole Whip Applications Remote Control	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> </tr> </thead> <tbody> <tr> <td>315</td> <td>2.0</td> </tr> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>1/4</td> </tr> <tr> <td>Electrical Type</td> <td>Monopole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omnidirectional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>		Frequency (MHz)	VSWR (max)	315	2.0	Polarization	Linear	Wavelength	1/4	Electrical Type	Monopole	Radiation Pattern	Omnidirectional	Impedance (Ohms)	50	Mechanical Data Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm							
	Frequency (MHz)	VSWR (max)																							
315	2.0																								
Polarization	Linear																								
Wavelength	1/4																								
Electrical Type	Monopole																								
Radiation Pattern	Omnidirectional																								
Impedance (Ohms)	50																								
 <p>ANT-418-CW-RCS</p>	Overview 418 MHz Right Angle Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> </tr> </thead> <tbody> <tr> <td>418</td> <td>2.0</td> </tr> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>1/4</td> </tr> <tr> <td>Electrical Type</td> <td>Monopole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omnidirectional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>		Frequency (MHz)	VSWR (max)	418	2.0	Polarization	Linear	Wavelength	1/4	Electrical Type	Monopole	Radiation Pattern	Omnidirectional	Impedance (Ohms)	50	Mechanical Data Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm							
	Frequency (MHz)	VSWR (max)																							
418	2.0																								
Polarization	Linear																								
Wavelength	1/4																								
Electrical Type	Monopole																								
Radiation Pattern	Omnidirectional																								
Impedance (Ohms)	50																								
RH Series																									
 <p>ANT-315-CW-RH-*</p>	Overview 315 MHz Straight Monopole Whip Applications Remote Control	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> </tr> </thead> <tbody> <tr> <td>315</td> <td>1.9</td> </tr> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>1/4</td> </tr> <tr> <td>Electrical Type</td> <td>Monopole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omnidirectional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>		Frequency (MHz)	VSWR (max)	315	1.9	Polarization	Linear	Wavelength	1/4	Electrical Type	Monopole	Radiation Pattern	Omnidirectional	Impedance (Ohms)	50	Mechanical Data Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug Dimensions 51.0 mm x 8.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm							
	Frequency (MHz)	VSWR (max)																							
315	1.9																								
Polarization	Linear																								
Wavelength	1/4																								
Electrical Type	Monopole																								
Radiation Pattern	Omnidirectional																								
Impedance (Ohms)	50																								
 <p>ANT-418-CW-RH-*</p>	Overview 418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Electrical Data <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (max)</th> <th>Peak Gain (dBi)</th> </tr> </thead> <tbody> <tr> <td>418</td> <td>1.9</td> <td>-6.7</td> </tr> <tr> <td>Polarization</td> <td>Linear</td> <td></td> </tr> <tr> <td>Wavelength</td> <td>1/4</td> <td></td> </tr> <tr> <td>Electrical Type</td> <td>Monopole</td> <td></td> </tr> <tr> <td>Radiation Pattern</td> <td>Omnidirectional</td> <td></td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> <td></td> </tr> </tbody> </table>		Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	418	1.9	-6.7	Polarization	Linear		Wavelength	1/4		Electrical Type	Monopole		Radiation Pattern	Omnidirectional		Impedance (Ohms)	50		Mechanical Data Mounting Type Connector Mount Termination* RP-SMA Plug SMA Plug Dimensions 51.0 mm x 8.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)																						
418	1.9	-6.7																							
Polarization	Linear																								
Wavelength	1/4																								
Electrical Type	Monopole																								
Radiation Pattern	Omnidirectional																								
Impedance (Ohms)	50																								

Other Antennas

External

Panel Mount

PW Series



ANT-418-PW-QW*

Overview	Electrical Data			Mechanical Data	
418 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	418	2.0	2.9	Termination*	U.FL-Type Plug Unterminated Cable
	Polarization	Linear		Dimensions	178.0 mm x 14.5 mm
	Wavelength	1/4		Op. Temp	-40 °C to +90 °C
	Electrical Type	Monopole		Cable Length	216.0 mm
	Radiation Pattern	Omnidirectional		Cable Type*	1.32 mm RG-174
	Impedance (Ohms)	50		Ground Plane	102 mm x 102 mm

WRT Series



ANT-418-WRT*

Overview	Electrical Data			Mechanical Data	
418 MHz Straight Dipole Dome	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Panel Mount
Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	418	1.9	-1.3	Termination*	RP-SMA Plug SMA Plug
	Polarization	Linear		Dimensions	26.8 mm x 19.0 mm
	Wavelength	1/2		Op. Temp	-40 °C to +90 °C
	Electrical Type	Dipole		Cable Length	216.0 mm
	Radiation Pattern	Omnidirectional		Cable Type	RG-174
	Impedance (Ohms)	50		Ground Plane	102 mm x 102 mm

PCB Screw Mount

LP Series



ANT-315-PW-LP




Overview	Electrical Data			Mechanical Data	
315 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
Applications Remote Control	315	1.9	-4.0	Termination	Screw Lug
	Polarization	Linear		Dimensions	50.5 mm x 10.4 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38.1 mm x 83.8 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			



ANT-418-PW-LP




Overview	Electrical Data			Mechanical Data	
418 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	PCB Screw
Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	418	1.9	-1.0	Termination	Screw Lug
	Polarization	Linear		Dimensions	50.5 mm x 10.4 mm
	Wavelength	1/4		Op. Temp	-20 °C to +85 °C
	Electrical Type	Monopole		Ground Plane	38.1 mm x 83.8 mm
	Radiation Pattern	Omnidirectional			
	Impedance (Ohms)	50			

Other Antennas

External				
PCB Screw Mount				
RA Series				
 <p>ANT-315-PW-RA</p>	Overview	Electrical Data		Mechanical Data
	315 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Mounting Type PCB Screw
	Applications	315	2.0	Termination Screw Lug
	Remote Control	Polarization	Linear	Dimensions 131.5 mm x 7.0 mm
		Wavelength	1/4	Op. Temp -20 °C to +60 °C
	Electrical Type	Monopole	Ground Plane 62.2 mm x 100.3 mm	
	Radiation Pattern	Omnidirectional		
	Impedance (Ohms)	50		
 <p>ANT-418-PW-RA</p>	Overview	Electrical Data		Mechanical Data
	418 MHz Tilt/Swivel Monopole Whip	Frequency (MHz)	VSWR (max)	Mounting Type PCB Screw
	Applications	418	2.0	Termination Screw Lug
	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Polarization	Linear	Dimensions 131.5 mm x 7.0 mm
		Wavelength	1/4	Op. Temp -20 °C to +60 °C
	Electrical Type	Monopole	Ground Plane 63.5 mm x 101.6 mm	
	Radiation Pattern	Omnidirectional		
	Impedance (Ohms)	50		
Remote				
Adhesive Mount				
MHW Series				
 <p>ANT-418-MHW-RPS-*</p>	Overview	Electrical Data		Mechanical Data
	418 MHz Dipole Adhesive	Frequency (MHz)	VSWR (max)	Mounting Type Adhesive
	Applications	418	1.9	Termination RP-SMA Plug
	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Polarization	Linear	SMA Plug
		Wavelength	1/2	Dimensions 150.0 mm x 15.5 mm x 9.7 mm
	Electrical Type	Dipole	Op. Temp -20 °C to + 70 °C	
	Radiation Pattern	Omnidirectional	Cable Length* 4.6 m	
	Impedance (Ohms)	50	2.0 m	
			Cable Type RG-174	

Antenna Mounts

Magnetic remote antenna mounts for Linx ELE Series screw base antennas.

Remote		
Magnetic Mount		
MAG Series		
 <p>ANT-MAG-B50*</p>	<p>Overview Straight – Magnetic Base</p> <p>Applications Use with ELE Series Screw Base Antennas</p>	<p>Mechanical Data</p> <p>Mounting Type Magnetic</p> <p>Termination* RP-SMA Plug SMA Plug TNC Plug</p> <p>Dimensions 50.0 mm x 50.0 mm x 37.4 mm</p> <p>Op. Temp -40 °C to +80 °C</p> <p>Cable Length 4.0 m</p> <p>Cable Type* RG-174 RG-58</p>
 <p>ANT-MAG-B66*</p>	<p>Overview Straight – Magnetic Base</p> <p>Applications Use with ELE Series Screw Base Antennas</p>	<p>Mechanical Data</p> <p>Mounting Type Magnetic</p> <p>Termination* RP-SMA Plug SMA Plug TNC Plug</p> <p>Dimensions 66.0 mm x 66.0 mm x 37.4 mm</p> <p>Op. Temp -40 °C to +80 °C</p> <p>Cable Length 4.0 m</p> <p>Cable Type* RG-174 RG-58</p>
 <p>ANT-MAG-B85*</p>	<p>Overview Straight – Magnetic Base</p> <p>Applications Use with ELE Series Screw Base Antennas</p>	<p>Mechanical Data</p> <p>Mounting Type Magnetic</p> <p>Termination* RP-SMA Plug SMA Plug TNC Plug</p> <p>Dimensions 85.0 mm x 85.0 mm x 37.4 mm</p> <p>Op. Temp -40 °C to +80 °C</p> <p>Cable Length 4.0 m</p> <p>Cable Type* RG-174 RG-58</p>

Cellular LTE/5G NR Frequency Band Guide

Operating Band #	Uplink Operating Band (MHz)	Downlink Operating Band (MHz)	Overall Operating Band (MHz)	Total Bandwidth (MHz)	LTE-M	LTE NB-IoT	5G NB-IoT
1	1920 – 1980	2110 – 2170	1920 – 2170	250	x	x	x
2	1850 – 1910	1930 – 1990	1850 – 1990	140	x	x	x
3	1710 – 1785	1805 – 1880	1710 – 1880	170	x	x	x
4	1710 – 1755	2110 – 2155	1710 – 2155	445	x	x	
5	824 – 849	869 – 894	824 – 894	70	x	x	x
7	2500 – 2570	2620 – 2690	2500 – 2690	190	x	x	x
8	880 – 915	925 – 960	880 – 960	80	x	x	x
9	1749.9 – 1784.9	1844.9 – 1879.9	1749.9 – 1879.9	130			
10	1710 – 1770	2110 – 2170	1710 – 2170	460			
11	1427.9 – 1447.9	1475.9 – 1495.9	1427.9 – 1495.9	68	x	x	
12	699 – 716	729 – 746	699 – 746	47	x	x	x
13	777 – 787	746 – 756	746 – 787	41	x	x	
14	788 – 798	758 – 768	758 – 798	40	x	x	x
17	704 – 716	734 – 746	704 – 746	42		x	
18	815 – 830	860 – 875	815 – 875	60	x	x	x
19	830 – 845	875 – 890	830 – 890	60	x	x	
20	832 – 862	791 – 821	791 – 862	71	x	x	x
21	1447.9 – 1462.9	1495.9 – 1510.9	1447.9 – 1510.9	63	x	x	
22	3410 – 3490	3510 – 3590	3410 – 3590	180			
24	1626.5 – 1660.5	1525 – 1559	1525 – 1660.5	135.5			
25	1850 – 1915	1930 – 1995	1850 – 1995	145	x	x	x
26	814 – 849	859 – 894	814 – 894	80	x	x	
27	807 – 824	852 – 869	807 – 869	62	x		
28	703 – 748	758 – 803	703 – 803	100	x	x	x
29	N/A	717 – 728	717 – 728	11			
30	2305 – 2315	2350 – 2360	2305 – 2360	55			
31	452.5 – 457.5	462.5 – 467.5	452.5 – 467.5	15	x	x	
32	N/A	1452 – 1496	1452 – 1496	44			
33	1900 – 1920	1900 – 1920	1900 – 1920	20			
34	2010 – 2025	2010 – 2025	2010 – 2025	15			
35	1850 – 1910	1850 – 1910	1850 – 1910	60			
36	1930 – 1990	1930 – 1990	1930 – 1990	60			
37	1910 – 1930	1910 – 1930	1910 – 1930	20			
38	2570 – 2620	2570 – 2620	2570 – 2620	50			
39	1880 – 1920	1880 – 1920	1880 – 1920	40			
40	2300 – 2400	2300 – 2400	2300 – 2400	100			
41	2496 – 2690	2496 – 2690	2496 – 2690	194		x	x
42	3400 – 3600	3400 – 3600	3400 – 3600	200		x	
43	3600 – 3800	3600 – 3800	3600 – 3800	200		x	
44	703 – 803	703 – 803	703 – 803	100			
45	1447 – 1467	1447 – 1467	1447 – 1467	20			

Cellular LTE/5G NR Frequency Band Guide

Operating Band #	Uplink Operating Band (MHz)	Downlink Operating Band (MHz)	Overall Operating Band (MHz)	Total Bandwidth (MHz)	LTE-M	LTE NB-IoT	5G NB-IoT
46	5150 – 5925	5150 – 5925	5150 – 5925	775			
47	5855 – 5925	5855 – 5925	5855 – 5925	70			
48	3550 – 3700	3550 – 3700	3550 – 3700	150			
49	3550 – 3700	3550 – 3700	3550 – 3700	150			
50	1432 – 1517	1432 – 1517	1432 – 1517	85			
51	1427 – 1432	1427 – 1432	1427 – 1432	5			
52	3300 – 3400	3300 – 3400	3300 – 3400	100			
53	2483.5 – 2495	2483.5 – 2495	2483.5 – 2495	11.5			
65	1920 – 2010	2110 – 2200	1920 – 2200	280		x	x
66	1710 – 1780	2110 – 2200	1710 – 2200	490	x	x	x
67	N/A	738 – 758	738 – 758	20			
68	698 – 728	753 – 783	698 – 783	85			
69	N/A	2570 – 2620	2570 – 2620	50			
70	1695 – 1710	1995 – 2020	1695 – 2020	325		x	x
71	663 – 698	617 – 652	617 – 698	81	x	x	x
72	451 – 456	461 – 466	451 – 466	15	x	x	
73	450 – 455	460 – 465	450 – 465	15	x	x	
74	1427 – 1470	1475 – 1518	1427 – 1518	91	x	x	x
75	N/A	1432 – 1517	1432 – 1517	85			
76	N/A	1427 – 1432	1427 – 1432	5			
n77	3300 – 4200	3300 – 4200	3300 – 4200	900			
n78	3300 – 3800	3300 – 3800	3300 – 3800	500			
n79	4400 – 5000	4400 – 5000	4400 – 5000	600			
n80	1710 – 1785	N/A	1710 – 1785	75			
n81	880 – 915	N/A	880 – 915	35			
n82	832 – 862	N/A	832 – 862	30			
n83	703 – 748	N/A	703 – 748	45			
n84	1920 – 1980	N/A	1920 – 1980	60			
85	698 – 716	728 – 746	698 – 746	48	x	x	
n86	1710 – 1780	N/A	1710 – 1780	70			
87	410 – 415	420 – 425	410 – 425	15	x	x	
88	412 – 417	422 – 427	412 – 427	15	x	x	
n89	824 – 849	N/A	824 – 849	25			
n90	2496 – 2690	2496 – 2690	2496 – 2690	194			x
n91	832 – 862	1427 – 1432	832 – 1432	600			
n92	832 – 862	1432 – 1517	832 – 1517	685			
n93	880 – 915	1427 – 1432	880 – 1432	552			
n94	880 – 915	1432 – 1517	880 – 1517	637			
n95	2010 – 2025	N/A	2010 – 2025	15			

LTE-only Bands
5G NR-only Bands
Both LTE and 5G NR Bands

LTE: 3GPP TS 36.101 V16.5.0 (2020-03), 5G NR: TS 38.104 V16.3.0 (2020-03)

GNSS Frequency Band Guide

System/Band	Center Frequency (MHz)	Bandwidth (MHz)	Low Frequency (MHz)	High Frequency (MHz)	Band Group
Beidou B1I	1561	4.092	1559	1563	L1
Beidou B1C	1575	32.736	1559	1592	L1
GALILEO-E1	1575.42	24.552	1563.14	1587.70	L1
GPS L1C/A	1575.42	24	1563.42	1587.42	L1
GPS L1C	1575.42	30.96	1559.94	1590.90	L1
QZSS L1	1575.42	24	1563.42	1587.42	L1
GLONASS (CDMA) L1	1601	not provided			L1
GLONASS (FDMA) L1	1602	8.00	1598	1606	L1
GLONASS (CDMA) L3	1202	not provided			L2
Beidou B2B	1207	20.46	1197	1218	L2
GALILEO-E5b	1207.14	20.46	1196.91	1217.37	L2
GPS L2	1228	24	1215	1240	L2
QZSS L2C	1227.6	24	1215.60	1239.60	L2
GLONASS (FDMA) L2	1246	5.00	1243	1248	L2
GLONASS (CDMA) L2	1248	not provided		1250	L2
Beidou B2A	1176	20.46	1166.22	1186.68	L5
GALILEO-E5a	1176.45	20.46	1166.22	1186.68	L5
GPS L5	1176.45	24	1164.45	1188.45	L5
NavIC L5	1176.45	24	1164.45	1188.45	L5
QZSS L5	1176.45	24.9	1164	1189	L5
Beidou B3I	1269	20.46	1258.29	1278.75	L6
GALILEO-E6	1279	40.92	1258.29	1299.21	L6
QZSS E6/LEX	1278.75	42	1257	1300	L6
NavIC S	2492.028	16.5	2483	2501	S

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www.shoppui.com/manufacturers-m-14_20_83.html

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