FL WLAN 2101 - Wireless module

2702540

https://www.phoenixcontact.com/us/products/2702540

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WLAN access point, client for USA and Canada, with 2□internal antennas for single-hole mounting, IP66/IP68, WLAN 802.11 a, b, g, n, frequency: 2.4 GHz, 5 GHz, connections: COMBICON 9 ... 32 V DC, RJ45: for LAN, web, http/https, CLI

Commercial data

Item number	2702540
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN26
Product key	DNN2W4
Catalog page	Page 373 (C-6-2019)
GTIN	4055626279503
Weight per piece (including packing)	375 g
Weight per piece (excluding packing)	337 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Notes

Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.

Product properties

Type	Stand-Alone
Product type	Wireless module

Insulation characteristics

Overvoltage category	none
Pollution degree	2

Wireless card

Number	1
Type	IEEE 802.11 a/b/g/n 2.4 GHz and 5 GHz to 300 Mbps
Assembly instructions	Permanently installed

Electrical properties

Supply: Module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Note on the connection method	Recommended conductor cross section: 0.75 mm²
	Recommended ferrule: connection length 10 mm
	Recommended crimping pliers: trapezoidal or square
Designation	1966101 FMC 1,5/ 3-STF-3,5
Number of positions	3
Cross section range AWG	24 ... 16 (Use copper wires rated 75° C (UL))
Supply voltage	24 V DC (SELV)
Supply voltage range	18 V DC ... 32 V DC (PELV/SELV)
	9 V DC ... 32 V DC (PELV/SELV (HW version 06 or later))
Supply current	typ. 120 mA (at 24 V DC)
Current consumption	max. 250 mA (at 18 V DC)
	max. 400 mA (at 9 V DC)

Connection data

1966101 FMC 1,5/ 3-STF-3,5

Connection method	Push-in spring connection
Conductor cross section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16

Stripping length	10 mm

Interfaces

Antenna

Number	2
Connection method	permanently installed
Note on the connection method	MIMO
Gain	5 dBi

Functions

Operating modes	Access Point / Client Adapter / Repeater
Configuration	Web-based management, automated CLI
Quality of service (QoS)	Yes
Security	802.11i
	WPA PSK (preshared key)
	WPA2
	AES
	TKIP
	MAC filter
	Supports 802.1X/RADIUS
Wireless licenses	USA, Canada
Country support	USA
	Canada

Ethernet (RJ45)

Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	1 (RJ45 ports)

Wireless

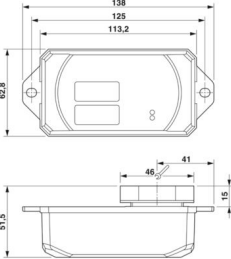| Designation	Wireless LAN
Antenna connection method	(Internal)
Frequency band	2.4 GHz
	5 GHz
Wireless standard	WLAN
	IEEE 802.11
	a
	b
	g
	n
Transmission power	max. 20 dBm (EIRP)

Number of wireless interfaces	1 IEEE 802. 11 a/b/g/n
Wireless modules that can be connected	60 (In access point mode)

Dimensions

Dimensional drawing	
Width	62.8 mm
Height	36.5 mm
Depth	113.2 mm
Note on dimensions	Outside dimensions

Material specifications

Material base plate	Die-cast zinc, nickel-plated
Housing material	Polycarbonate, PC

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP66
	IP67
	IP68
Ambient temperature (operation)	-40 °C ... 60 °C
Note	Degree of protection when installed
Air pressure (operation)	800 hPa ... 1080 hPa (up to 2000 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

EMC data

Electrostatic discharge

Standards/regulations	EN 61000-4-2

Electrostatic discharge

Contact discharge	± 4 kV
Discharge in air	± 8 kV
Indirect discharge	± 6 kV

Electromagnetic HF field	
Standards/regulations	EN 61000-4-3

Electromagnetic HF field	
Frequency range	80 MHz ... 1000 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m

Fast transients (burst)	
Standards/regulations	EN 61000-4-4

Fast transients (burst)	
Comments	±2.2 kV

Surge current load (surge)	
Standards/regulations	EN 61000-4-5

Surge current load (surge)	
Signal	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)

Conducted interference	
Standards/regulations	EN 61000-4-6

Conducted interference	
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

Emitted interference	
Standards/regulations	FCC/CFR 47, Part 15.107
Test result	Class B

Emitted interference	
Standards/regulations	FCC/CFR 47, Part 15.109
Test result	Class A

Emitted interference	
Standards/regulations	ICES-003 Issue 6 section 6.1
Test result	Class B

Emitted interference	
Standards/regulations	ICES-003 Issue 6 section 6.2
Test result	Class A

Mounting

Mounting type	Single-hole mounting
Assembly instructions	Internal antenna

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Drawings

Dimensional drawing
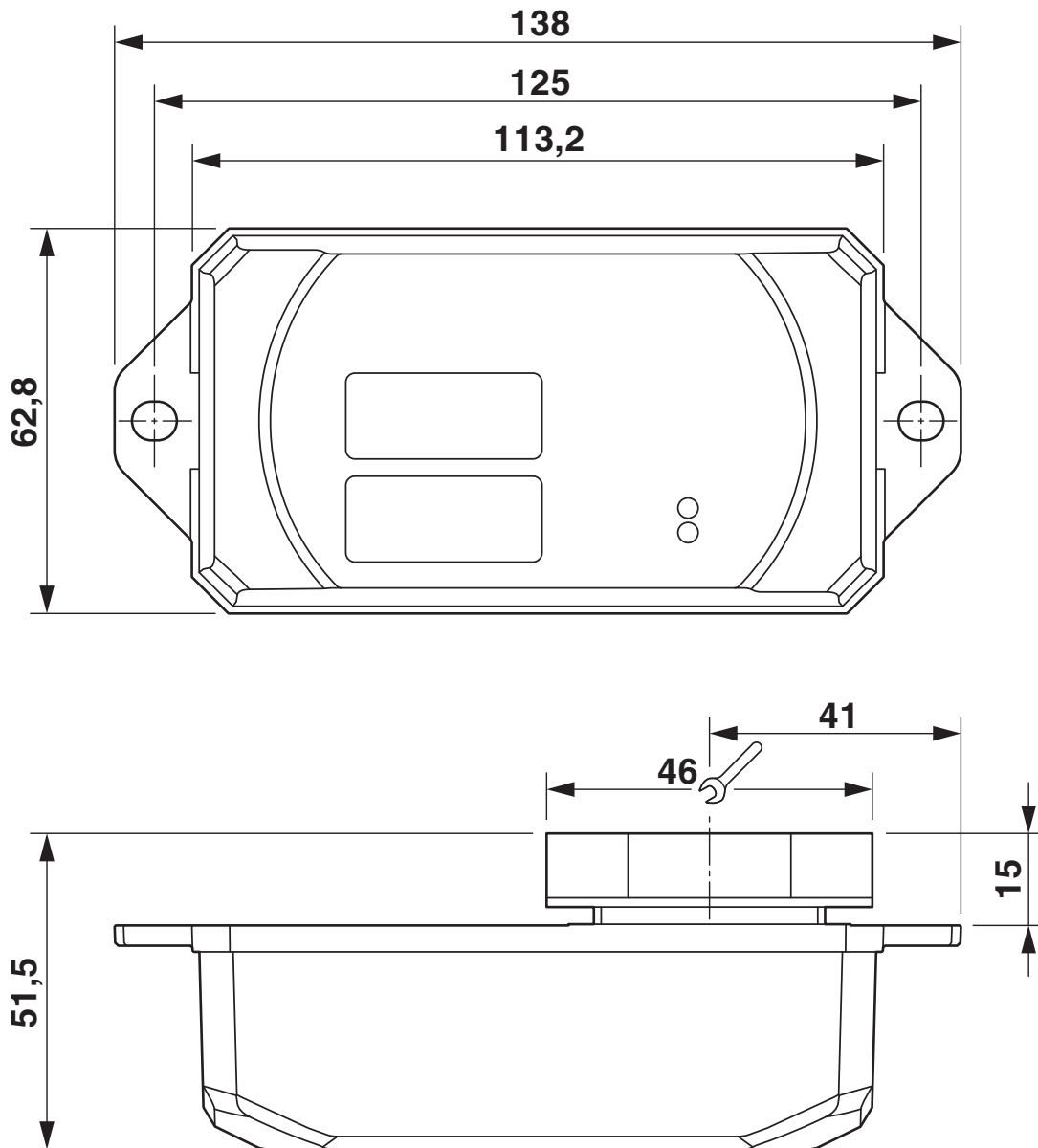
Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2702540

cULus Listed
Approval ID: E238705

cUL Listed
Approval ID: FILE E 196811

UL Listed
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Classifications

ECLASS

ECLASS-11.0	19170501
ECLASS-12.0	19170501
ECLASS-13.0	19170501

ETIM

ETIM 9.0	EC000816

UNSPSC

UNSPSC 21.0	43222600

Environmental product compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

FL M32 ADAPTER - Adapter

2702544

https://www.phoenixcontact.com/us/products/2702544

Accessories for FL-WLAN 1100 series: Optional cable feed-through for sealing (IP67) the FL-WLAN 110x connection (IP20), if the device is not directly integrated onto the closed housing. Not needed when mounting on a control cabinet, etc.

CUC-IND-C1ZNI-S/R4IE8 - RJ45 connector

1421607

https://www.phoenixcontact.com/us/products/1421607

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: green, Ethernet

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FMC 1,5/ 3-STF-3,5 - Printed-circuit board connector

1966101

https://www.phoenixcontact.com/us/products/1966101

PCB connector, nominal cross section: 1.5 mm^2, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard

FL CAT5 PATCH 1,5 - Patch cable

2832221

https://www.phoenixcontact.com/us/products/2832221

Patch cable, CAT5, assembled, 1.5 m