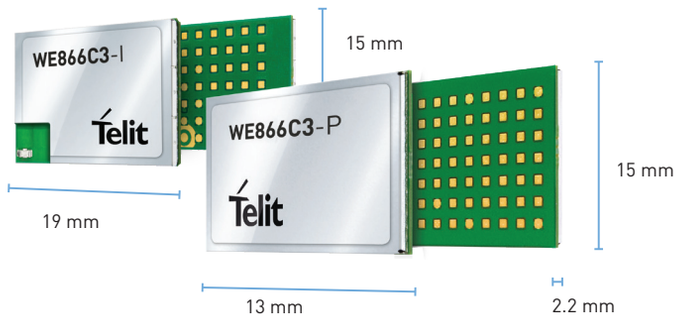
WE866C3

Wi-Fi 802.11 ac (1x1) BT-4.2



Product Description

The WE866C3 is a low power, dual-band (2.4 & 5GHz), 1-stream (1x1) 802.11ac and Bluetooth 4.2 module with an extremely small footprint that provides an easy & cost-effective way for manufacturers to add wireless connectivity to their products. With the integrated LTE-WiFi/BT coexis-tence filter, the product offers a powerful cellular backhaul with our LE910Cx 4G LTE module family. The WE866C3 also offers a high bandwidth Wi-Fi transceiver (Network Inter-face Card), for Linux, Android* & Win-CE* powered IoT sys-tems using the advanced 802.11ac MU-MIMO technology.

The module supports a low-power, high-speed SDIO3.0 host interface for Wi-Fi and a UART interface for Bluetooth (BT). It also offers an additional PCM interface for BT-Audio.

The WE866C3 enables faster time to market, with off-the-shelf Cloud connectivity (deviceWise), Firmware upgrade, support of complete suite of WPA/WPA2 Personal and Enterprise security etc. The advanced Wi-Fi/Bluetooth coexistence and concurrent mode (simultaneous operation of Wi-Fi AP & Client) makes WE866C3 a best choice for a wide range of IoT applications.

The product is an ideal solution for organizations with lim-ited RF (Wi-Fi/BT) expertise or for those seeking faster time to market, as it reduces RF design time and removes the burden of testing and certification.

Key Benefits

- xE866 Telit form-factor, Wi-Fi/BT companion device for LE910Cx (4G LTE) module family
- High Bandwidth (1x1 dual band 802.11 ac) Wi-Fi transceiver module for Linux, Android*, WinCE* based IoT system
- Bluetooth 4.2* + HS and Bluetooth low energy (BLE*)
- Integrated LTE-WiFi/BT coexistence filter
- Pre-Certified for FCC, IC, CE, Wi-Fi, BT*
- Single antenna for Wi-Fi and BT
- Industrial grade temperature range

AVAILABLE FOR

EMEA
North America
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Korea*

Complete, Ready to Use Access to the Internet of Things

IoT Modules IoT Connectivity IoT Platforms

Target Applications

Commercial/Enterprise
- Commercial Building Automation
- Patient Monitoring
- Inventory Management
- Home Security & Automation
- Kiosks, Vending, POS

Industrial/Infrastructure
- Condition-based Monitoring
- Agriculture
- Video Surveillance
- Healthcare Equipment Monitoring
- Smart City

Transportation/Mobility
- Aftermarket/OEM Telematics
- Asset Tracking
- Fleet Management
- Intelligent Transportation
- People Pet Tracking

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WE866C3

PRELIMINARY

Models	WE866C3-P: External antenna (RF pad) WE866C3-I Integrated antenna		
RF Operating Frequency	Wi-Fi - 802.11 a/b/g/n (2.4GHz, 5GHz) - 20/40/80MHz), BT-v4.2/BLE (2.4GHz)		
Coexistence	Integrated LTE-WiFi/BT coexistence filter Inbuilt Wi-Fi/BT coexistence		
Host Interface	Wi-Fi: SDIO 3.0 Bluetooth: UART Bluetooth Audio: PCM		
Modes	Wi-Fi AP (Access Point - Support upto 10 STA's), STA (Client), Wi-Fi + STA Concurrent Mode, Wi-Fi Direct (P2P)*, BT*, BLE*		
Application Throughput (TCP/UDP)	200+Mbps (over SDIO)		
Security Features	WPA/WPA2 - Personal, WPA/WPA2 - Enterprise, WEP		
Support for Firmware Upgrade	Yes		
Cloud Connectivity	Pre-inetgarted with Telit Cloud (deviceWise)		
Driver Support	Linux(x86 & i.MX platform), Android*		
Radio Charateristics	Tx Power	Wi-Fi	19dBm (2.4GHz - 802.11b 1Mbps) 16dBm (2.4GHz - 802.11n/ac MCS7 20MHz) 12dBm (5GHz - 802.11n/ac MCS7 40MHz)
		BT	11dBm BT (GFSK) 4dBm BLE
	Rx Sensitivity	Wi-Fi	-96dBm (2.4GHz - 802.11b 1Mbps) -75dBm (2.4GHz - 802.11n MCS7 20MHz) -74dBm (5GHz - 802.11n MCS7 20MHz)
		BT	-97dBm
Radio Regulatory Certfication	Wi-Fi: FCC, IC, RED, TELEC*, KC*, BT*		
Compliance	Wi-Fi: Wi-Fi Alliance, BT-SIG*		
Environmental Compliance	RoHS, REACH		
Antenna Option	External Antenna (RF Pads), Integrated Antenna		
Outline Dimension	WE866C3-P: 15 x 13mm WE866C3-I: 15 x 19mm		
Operating Voltage	3.3V		
Operating Temperature	-40°C to +85°C (Industrial Grade)		

*Not available in first release

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[02.2018]

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