WE866C3-P

Wi-Fi 802.11 **ac (1x1)** **BT/BLE4.2**

13 mm   2.2 mm   15 mm
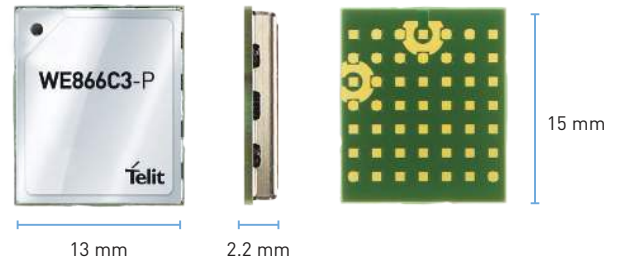
Product Description

The WE866C3-P is a low power, dual-band (2.4 & 5GHz), 1-stream (1x1) 802.11ac Wi-Fi and Bluetooth (BT/BLE4.2) 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/BLE coexistence filter, the product offers a powerful cellular backhaul with Telit's LE910Cx 4G LTE module family. WE866C3-P also offers a high bandwidth Wi-Fi/BLE transceiver solution for Linux & Android* powered IoT systems, using the advanced 802.11ac technology.

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

The product is an ideal solution for organizations with limited RF (Wi-Fi/Bluetooth) 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/BLE companion device for LE910Cx (4G LTE) module family

- High Bandwidth Wi-Fi/BLE transceiver module for Linux & Android*, based IoT system

- Bluetooth 4.2 with Low energy (LE) support

- Integrated LTE-WiFi/BLE coexistence filter

- Pre-Certified for FCC, IC, CE, Wi-Fi, BT

- Single antenna for Wi-Fi and BT/BLE

- Industrial grade temperature range

Target Applications

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

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

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

AVAILABLE FOR

EMEA
North America
Japan*
Korea*

**Complete,
Ready to Use Access**
to the Internet of Things

Modules   Connectivity   Software
              Plans   & Platforms

Connecting the world
from the *inside out*

WE866C3-P

	WE866C3-P: External antenna (RF pad)		
RF Spec	Wi-Fi - 802.11 a/b/g/n/ac (2.4GHz, 5GHz @ 20/40/80MHz), BT/BLE - 4.2		
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), Concurrent Mode (AP+STA), BLE Peripheral, central & concurrency		
Linux Transceiver Driver Support	Linux(x86 & i.Mx platform – Kernel version 4.9.11), Android*		
Linux transceiver Wi-Fi Throughput	200+Mbps (over SDIO)		
Support for Firmware Upgrade	Yes		
Coexistence	Integrated LTE-WiFi/BT coexistence filter Inbuilt Wi-Fi/BT coexistence		
LTE Companion Throughput	Model	Downlink (Mbps)	Uplink (Mbps)
	LE910C1-NF	10	5
	LE910C1-EU	10	5
	LE910C1-AP	10	5
	LE910C4-NF	150	50
	LE910C4-EU	150	50
Radio Regulatory Certification	Wi-Fi: FCC, IC, RED, TELEC*, KC*, BT/BLE		
Compliance	Wi-Fi: Wi-Fi Alliance, BT-SIG		
Environmental Compliance	RoHS, REACH		
Antenna Option	External Antenna (RF Pads)		
Outline Dimension	15mm x 13mm x 2.2mm		
Operating Voltage	3.3V		
Operating Temperature	-30°C to +85°C (Industrial Grade)		

*Not available in first release