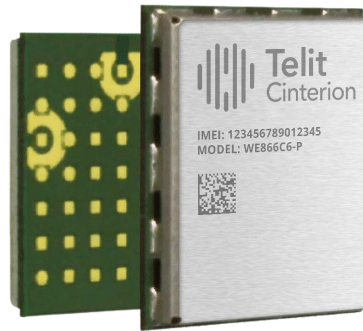


WE866C6-P

Wi-Fi 802.11 ac (1 x 1)

Bluetooth® Low Energy 5.0



Product Description

The WE866C6-P is a dual-band (2.4 & 5 GHz), 1-stream (1x1) 802.11 ac Wi-Fi and Bluetooth®/Bluetooth® Low Energy module with an extremely small footprint that provides an easy and cost-effective way for manufacturers to add short-range, wireless connectivity to their products. With the integrated LTE-Wi-Fi/Bluetooth® coexistence filter, the product offers a powerful cellular backhaul solution with Telit's LE910Cx 4G LTE module family. WE866C6-P also provides a high bandwidth Wi-Fi/Bluetooth® transceiver solution for Linux powered IoT systems.

The module supports a low-power, high-speed SDIO 3.0 host interface for Wi-Fi and a UART interface for Bluetooth®/ Bluetooth® Low Energy. It also offers an additional PCM interface for Bluetooth®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 engineering time and removes the burden of testing and certification.

Key Benefits

- xE866 Telit Cinterion form factor, Wi-Fi/Bluetooth® Low Energy bundling device for LE910Cx (4G LTE) module family
- High-bandwidth Wi-Fi/Bluetooth® Low Energy transceiver module for Linux-based IoT system
- Bluetooth® Low Energy 5.0 with low energy support
- Integrated LTE-Wi-Fi/Bluetooth® Low Energy coexistence filter
- Precertified for FCC, IC, CE, Wi-Fi Alliance, Bluetooth® SIG
- Single antenna for Wi-Fi and Bluetooth®/Bluetooth® Low Energy
- Industrial-grade temperature range

Target Applications

Transportation/Mobility

- Aftermarket/OEM telematics
- Fleet management
- Asset tracking
- Intelligent transportation
- Car phone
- OBD (onboard diagnostics)

Industrial/Infrastructure

- Condition-based monitoring
- Agriculture
- Video surveillance
- Healthcare equipment monitoring

Commercial/Enterprise

- Commercial building automation
- Patient monitoring
- Home security and automation
- Kiosks, vending, POS

AVAILABLE FOR

EMEA

Japan

North America

Latin America

India

Korea*

China*

Australia/New Zealand



WE866C6-P

Module Wireless Specification	Wi-Fi - 802.11 a/b/g/n/ac (2.4 GHz, 5 GHz @ 20/40/80 MHz), Bluetooth®/Bluetooth® Low Energy
Supported Use-Cases	LTE-Wi-Fi bundling Linux companion
LTE-Wi-Fi Bundling Architecture	Hosted (AT commands) hostless
LTE-Wi-Fi Bundling Supported Modules	LE910C4/C1-NF LE910C4/C1-EU LE910C4/C1-LA LE910C4/C1-AP LE910C4-CN LE910C1-NA/NS
LTE-Wi-Fi Bundling HotSpot Throughput	LE910C1-xx: 10 Mbps (downlink), 5 Mbps (uplink) LE910C4-xx: 150 Mbps (downlink), 50 Mbps (uplink)
LTE - Wi-Fi Bundling Coexistence	Integrated LTE-Wi-Fi/Bluetooth® coexistence filter Built-in Wi-Fi/Bluetooth® coexistence
Linux Companion Throughput	200+ Mbps (over SDIO)
Wireless Modes	Wi-Fi AP (access point - support up to 10 STAs), STA (client), Concurrent mode (AP + AP, AT + STA), BLE central/peripheral
Host Interface	Wi-Fi: SDIO 3.0 BT: UART BT Audio: PCM
Radio Regulatory Certification	FCC, IC, RED, UKCA, Japan (TELEC), Brazil (ANATEL), Perù (MPC) India (WPC-ETA) Korea (KC)*, SRRC (China)*, Australia (RCM)
Compliance	Wi-Fi Alliance, Bluetooth®-SIG
Antenna Option Dimension	15 mm x 13 mm x 2.2 mm
Temperature	3.3 V -40 °C to +85 °C (industrial grade)
Security Features	WPA/WPA2 (personal) WPA3 (personal/enterprise)

*Not available in first release

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