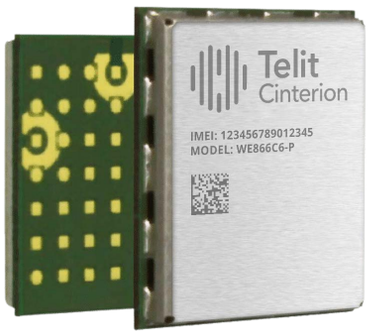
WE866C6-P

Wi-Fi IEEE 802.11a/b/g/n/ac
Bluetooth® Dual-Mode



Product Description

The WE866C6-P is a dual-band (2.4 GHz/5 GHz) combo Wi-Fi 5/Bluetooth® Dual -Mode companion 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 LE910Cx 4G LTE Telit Cinterion 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 seek-ing 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 5/ 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® LE (qualified against Bluetooth® Core 5.0)
- Integrated LTE-Wi-Fi/Bluetooth® Low Energy coexistence filter
- 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
- Australia/New Zealand

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WE866C6-P

Module Wireless Specification	Wi-Fi 802.11 a/b/g/n/ac 2.4 GHz/5 GHz Channel width 20/40/80 MHz Bluetooth® Dual-Mode Bluetooth® LE (qualified against Bluetooth Core 5.0)
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, ISED, RED, UKCA, JATE-JTBL, TELEC-JRL, Anatel, Subtel, MTC, WPC-ETA, RCM, KCC, NCC
Compliance	Wi-Fi Alliance, BT SIG
Antenna Option Dimension	15 mm x 13 mm x 2.2 mm
	3.3 V
Temperature	-40 °C to +85 °C (industrial grade)
Security Features	WPA/WPA2 (personal) WPA3 (personal/enterprise*)

**Not supported in AP mode*

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