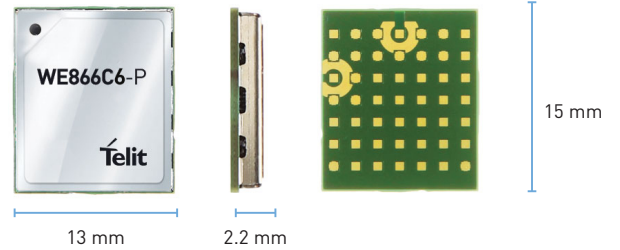


WE866C6-P

Wi-Fi 802.11 ac (1 x 1) BT/BLE5



Product Description

The WE866C6-P is a dual-band (2.4 & 5 GHz), 1-stream (1x1) 802.11 ac Wi-Fi and Bluetooth (BT/BLE5) 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/BLE 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/BLE 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 (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/BT) 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 form factor, Wi-Fi/BLE bundling device for LE910Cx (4G LTE) module family
- High-bandwidth Wi-Fi/BLE transceiver module for Linux-based IoT system
- Bluetooth 5 with low energy (LE) support
- Integrated LTE-Wi-Fi/BLE coexistence filter
- Precertified for FCC, IC, CE, Wi-Fi Alliance, BT SIG
- Single antenna for Wi-Fi and BT/BLE
- 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
- Korea*
- China*
- Australia/New Zealand*

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



WE866C6-P

Module Wireless Specification

Wi-Fi - 802.11 a/b/g/n/ac (2.4 GHz, 5 GHz @ 20/40/80 MHz), BT/BLE5

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/BT coexistence filter
Built-in Wi-Fi/BT 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, Japan (TELEC), Brazil (ANATEL),
Korea (KC)*, SRRC (China)*, Australia (RCM)*

Compliance

Wi-Fi Alliance, BT SIG

Antenna Option Dimension

15 mm x 13 mm x 2.2 mm

Operating Voltage

3.3 V

Temperature

-40 °C to +85 °C (industrial grade)

*Not available in first release

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