WE866C6-P

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

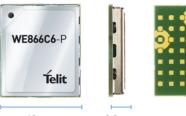13 mm   2.2 mm   15 mm
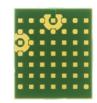
Product Description

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 seek-ing 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
North America
Latin America*
Korea*
Japan*
China*
Australia/New Zealand*

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

Cellular
Module
Companion

Software
& Platforms

Connecting the world
from the *inside out*

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)*, Korea (KC)*, Brazil (ANATEL)*, 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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