



CMP9610

Wi-Fi 6 Performance with BLE & 802.15.4

Tri-Protocol, Industrial Grade Wireless

Inquiry



- 2.4 / 5 GHz
- Tri-Protocol
- PCB Antenna or Connector
- Castellated Edge Connector
- LGA Option -- 12 x 12 mm

OVERVIEW

The CMP9610 delivers the performance and network optimization capabilities of Wi-Fi 6, which is critical for today's complicated and crowded wireless systems. Moreover, it offers flexibility to OEMs and users to leverage lower bandwidth and longer-range protocols to address applications that have their own unique needs. CEL is offering its solutions with an antenna connector, RF pin, and its high-performance PCB-trace antenna for use in harsh environments. With the ability to support Linux or RTOS systems, the CMP9610 is versatile and ready for integration with almost any MCU or MPU for a variety of applications.

WIRELESS FEATURES

- **Dual-Band 802.11ax**
 - ▶ Tx: Up to +20 dBm
 - ▶ Single Stream: 20 MHz Channels
 - ▶ AP, STA, Direct, Combination
 - ▶ USB Interface
- **Bluetooth LE 5.4**
 - ▶ Tx: Up to +6 dBm
 - ▶ Up to 1 / 2 Mbps, Coded PHY 500 / Up to 125kbps
 - ▶ USB Interface
- **802.15.4 – Zigbee, Thread, Matter**
 - ▶ Tx: +6 dBm
 - ▶ SPI Interface
- WPA2/3 Security

ANTENNA OPTIONS

- Integrated Dual-Band PCB Trace
- MHF4 Connector
- RF Pin

EVALUATION PLATFORM

- USB Interface Board for Painless Evaluation

OTHER

- Certifications: FCC, IC, CE
- 16.64 × 27.80 × 3.47 mm, 12x12mm LGA
- -40°C to +85°C Operation
- Castellated Edge Connections to HOST PCB

HOST DRIVER SOURCE CODE

- **Linux / Android for MPU**
 - ▶ Pre-tested and integrated in NXP's iMX 6/7/8/9 SDKs, Others MPUs supported
- **FreeRTOS for MCU**
 - ▶ Pre-tested and integrated in NXP's RT1170/1064/1060/1050/1024/1020 SDKs

TOOLS AND SUPPORT

- MCUXpresso IDE
- Documentation
 - ▶ Hardware Design Guide
 - ▶ Software Quick Start Guide
- CEL Software Repository

APPLICATIONS

- Healthcare and Medical Devices
- Building Automation
- Retail/POS Terminals
- Security, Video/Cameras
- Smart Home

Questions? Call Us
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