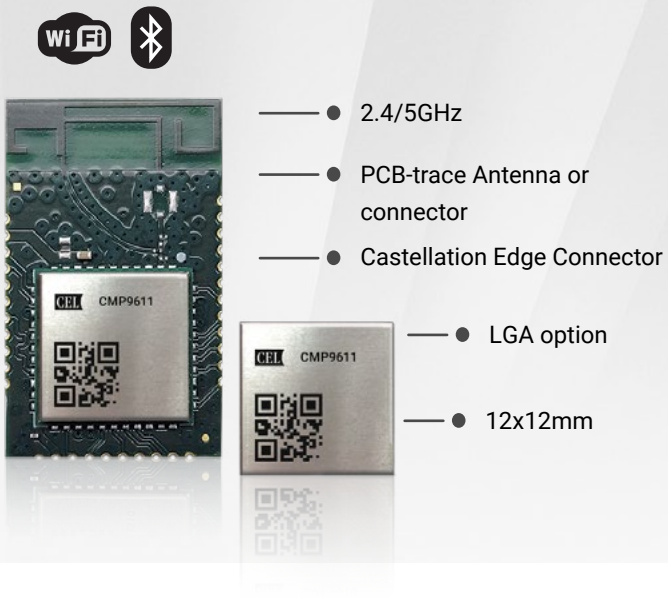
CMP9611 & CMP9612

Wi-Fi 6 Performance with BLE & 802.15.4

Dual and Tri-Protocol industrial grade wireless for IoT

Inquiry



The CMP961x 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 it's solutions with an antenna connector, RF pin, and it's high-performance PCB-trace antenna for use in harsh environments. With the ability to support Linux or RTOS systems, the CMP961x is versatile and ready for integration with almost any MCU or MPU for a variety of applications.

WIRELESS FEATURES

- CMP9611...WiFi 6 BT5.2
- CMP9612...Wi-Fi 6, BT5.2, 802.15.4 (MATTER/Thread)
- Interfaces - Wi-Fi/SDIO, BLE/UART, 802.15.4/SPI
- Dual-Band 802.11 ax
  - Tx: +20 dBm
  - Single Stream: 80MHz Channels
- BLE 5.2
  - Tx: 20 dBm max (1M PHY)
  - 2 Mbps, Long Range, Advertising Extensions
- AP, STA, Direct, Combination
- Long Range & Broad Coverage
- TWT
- WPA3 Security
- Dedicated, Independent CPUs & Memory for BT & WiFi

ANTENNA OPTIONS

- Integrated Dual-Band PCB Trace
- MHF4 connector
- RF pin

EVALUATION PLATFORM

- SD Interface Board for Easy Evaluation and development

OTHER

- Certifications: FCC/IC/CE
- 16.64 x 27.80 x 3.47 mm, 12x12mm LGA
- Industrial Temperature: -40 C to +85 C Operation
- Castellation Edge Connections to HOST PCB

HOST DRIVER SOURCE CODE

- Linux/Android for MPU
  - Pre-tested and integrated in NXP's iMX 6/7/8 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 QSG
- 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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