CMP9010
Dual Band Wi-Fi + BLE Connectivity for IoT

Ultra low power connectivity for MPU/MCU designs

2.4/5GHz

PCB-trace Antenna or connector
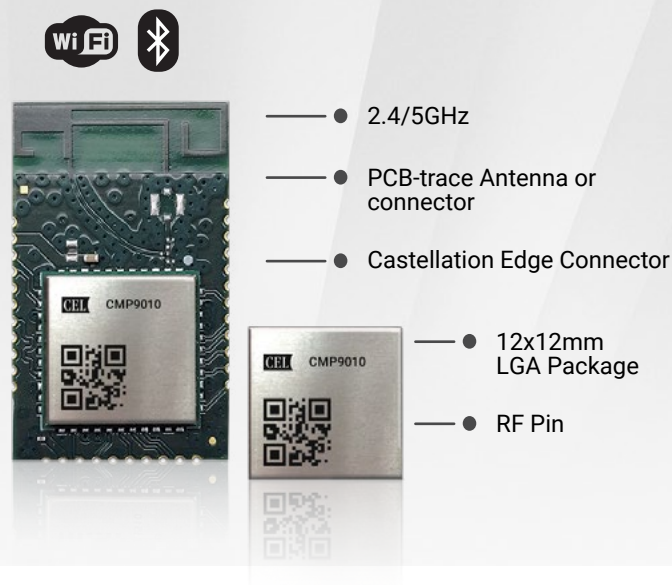
Castellation Edge Connector

12x12mm LGA Package

RF Pin

Today's demanding IoT applications require multi-protocol wireless connectivity, MPU/MCU support, integration, low power consumption, and excellent range and coverage. CEL addresses these issues by offering a solution that integrates Wi-Fi and BLE, optimizing the wireless performance for challenging environments and power constrained applications, three antenna options, and provides developments tools, resources, and support to assist the developer. Below are highlights of CEL's high-performing CMP9010.

WIRELESS FEATURES
- Wi-Fi SDIO Interface, BLE UART interface
- Dual-Band 802.11 a/b/g/n
  - Tx: +20dBm
  - Single Stream; 20/40 MHz Channels
  - 150 Mbps (MCS7)
- BLE 5.2 (Classic & BLE)
  - Tx: 13.5 dBm
  - 2 Mbps, Long Range
  - Advertising Extensions
- LTE Co-Existence
- Long Range & Broad Coverage
- STA, AP, Direct, Combo
- WPA3 Security

ANTENNA OPTIONS
- Integrated Dual-Band PCB Trace
- MHF4 connector
- RF Pin

EVALUATION PLATFORM
- SD Interface Board for Easy Evaluation and development

OTHER
- Certification: FCC/IC/CE
- 16.64 x 27.80 x 3.47 mm
- 12 x 12 mm LGA Package
- 0 C to +70 C or -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
- Hardware Design Guide
- Reference platform / Yocto examples
- CEL Software Repository

APPLICATIONS
- Healthcare and Medical Devices
- Building Automation
- Retail/POS Terminals
- Smart City
- Smart Home
- IP Cameras
- Connected Tools

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