CMP9010

Dual Band Wi-Fi + BT Connectivity for IoT

Ultra Low Power Hosted Module

Inquiry



- 2.4 / 5 GHz
- PCB-trace Antenna
- MHF4 Antenna Connector
- Castellation Edge Connector
- 12 x 12 mm LGA Package
- RF Pin

OVERVIEW

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

- **Dual-Band 802.11a/b/g/n**
  - Tx: Up to +20 dBm
  - Single Stream; 20 / 40 MHz Channels
  - 150 Mbps (MCS7)
  - SDIO Interface
- **Bluetooth 5.2 (Classic & BLE)**
  - Tx: Up to +13.5 dBm
  - 2 Mbps, Long Range
  - Advertising Extensions
  - UART Interface
- 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 Simple Evaluation

OTHER

- Certification: FCC, IC, CE
- 16.64 × 27.80 × 3.47 mm
- LGA – 12 × 12 x 1.85 mm
- 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 / Home
- IP Cameras
- IoT Tools

Questions? Call Us
(408) 919-2500
www.cel.com

PRELIMINARY SPECIFICATION. This document is subject to change without notice.