

CMP9670

Wi-Fi 6/6E 802.11ax, BT5.2 2X2 Tri-band



M.2



mPCIe (Half)

CEL's CMP9670 was built for next generation commercial and industrial device connectivity. With the ability to network on three frequencies, support MU-MIMO, provide Dual-Band Simultaneous communication, and achieve ultra fast throughput, this module will support the needs of the most demanding networks and applications.

WIRELESS FEATURES

- Tri-Band 802.11 a/b/g/n/ac/ax
- Supports 2x2 Multi-User Multiple-Input Multiple-Output (MU-MIMO)
- Dual Band Simultaneous (DBS), up to 3.6 Gbps data rate (2x2+2x2 11ax DBS)
- Tri-band 2.4 GHz/5 GHz/6 GHz support
- 20 MHz/40 MHz channel bandwidth for 2.4 GHz
- 20 MHz/40 MHz/80 MHz/160 MHz channel bandwidth for 5 GHz/6 GHz
- Seamless antenna sharing with Bluetooth, LTE, LTE-U, and 5G
- Dynamic Frequency Selection (DFS, radar detection)
- Offloading traffic for minimal host utilization at 802.11ac/ax speeds
- Low-power PCIe (with L1 substate) interface
- Integrated close-loop power detector
- Monitor mode

WI-FI FEATURES

- STA mode
- AP mode
- STA+AP mode
- Wi-Fi Direct
- Monitor mode
- TWT

SECURITY

- AES-CCMP at 128/256 bits
- WEP, TKIP hardware encryption
- WAPI-2 hardware encryption
- WPA/WPA2/WPA3
- FIPS 140-2 support

MECHANICAL

- M.2: 22x30mm
- mPCIe (Half): 29x30mm
- Operating Temperature: -30°C to +85°C
- Max power consumption 3W (25°C, DBDC)
- Operating Voltage M.2 Interface DC 3.3V ±5%
- Antenna Port: MHF4 connector x2 for 2T2R

PROTOCOL & INTERFACE

- PCIe Gen 3 interface for WLAN
- USB 1.1 interface for Bluetooth

OPERATING SYSTEM SUPPORT

- Windows 10/11 (32/bit/64bit)
- Linux (Kernel 4.9.11 & 5.4.0~5.10), Open Driver:ATH11K
- Android

APPLICATIONS

- Industrial Networks
- Smart City
- Building Controls
- Medical
- Security
- Portable Computing/Printing
- Factory Automation
- Transportation
- POS Terminals