CEL

2X2 MU-MIMO WI-FI 6 WITH CONCURRENT BLUETOOTH V5.3

NEW WIRELESS DEPLOYMENTS DEMAND MORE DATA THROUGHPUT AND MORE EFFICIENT NETWORK UTILIZATION. CEL DESIGNED THE CMP9620 TO DELIVER BOTH WHILE OFFERING OUT-OF-THE-BOX INTEGRATION INTO NXP'S I.MX8 ECOSYSTEM. SIMULTANEOUS DUAL-BAND OPERATION, COMBINED WITH CONCURRENT BLUETOOTH AND THE LATEST BLUETOOTH FEATURES, DELIVER THE CONNECTIVITY DEMANDED BY EDGE GATEWAYS AND HIGH-BANDWIDTH APPLICATIONS

WIRELESS FEATURES

- Dual-Band 2x2 Wi-Fi 6 (802.11 ax)
- 1.2 Gbps PHY Rate @ 5 GHz
- 458 Mpbs PHY Rate @ 2.4 GHz
- Concurrent Dual Band 2x2 MU-MIMO
- TX: 18 dBm
- PCIe Host Interface
- Dual-Mode Bluetooth v5.3
- Tx: tbd dBm
- 3 Mbps / 2 Mbps / 1 Mbps PHY
- Coded PHY
- Bluetooth Mesh
- AoA / AoD
- Advertising Extensions
- LTE Co-Existence
- Low Power Consumption
- Long Range & Broad Coverage

ANTENNA OPTIONS

- 3X Integrated MFH4 Connectors
- 2X WLAN
- 1X Bluetooth

OTHER

- Certifications: FCC/IC/CE
- M.2 E-Key
- 28 x 30 mm
- -30 C to +85 C Operation

HOST DRIVER SOURCE CODE

- Linux/Android for I.MX8
- Hardware Porting Guides
- CEL Software Repository

APPLICATIONS

- Edge Gateways
- Industrial and Building Automation
- Retail/POS Terminals
- Smart City
- Smart Home/Gateways
- IP Cameras
- Connected Healthcare
- Rugged Computing
- Medical Equipment