CMP4620
Hostless Wi-Fi 6 + BLE 5.2 for IoT

AX functionality for IoT Devices

- 2.4GHz
- Wi-Fi 6
- BT 5.2
- Dual-Core MCU
- Certified

Designed for next generation Wi-Fi IoT devices, the CMP4620 provides the latest in Wi-Fi performance and features with it's AX functionality, as well as BT 5.2. It offers dual-core MCU support for low-power operation and plenty of processing horse power, as well as ample Flash/SRAM memory and resources for your application. With it's TrustZone-M support, crypto engine, secure boot... and TRNG, it offers the security features today's devices require. Development is supported by CEL's evaluation board, SDK, quick-start guides, reference code, integration assistance...to get your product to market quickly.

WIRELESS FEATURES
- Single-Band 802.11 b/g/n/ax
  - SISO
  - Tx: + 16dBm to +20dBm
  - TWT
- BLE 5.2
  - Supports scatter-net (concurrent central & peripheral mode)
  - Supports both flooding-mode and scatter-mode SIG mesh
  - AoA and AoD
  - BLE LR Coded PHY

SECURITY
- Secure Boot (M55)
- TrustZone-M
- TRNG
- Hardware crypto engines
- ECDSA engine

APPLICATON RESOURCES
- Dual-Core MCU
  - KM4 – 32-bit, ARM Cortex-M55 compatible, <400MHz
  - KR4 – 32-bit, RISC-V compatible, <400MHz
- Memory
  - Flash/RAM/PSRAM...8MB/256+512KB/4MB
- Audio
  - Low-energy voice activity detection
  - 128KB VAD buffer
  - PDM interface function for external speaker AMP
  - 4-channel digital microphone interface support
  - I2S (2)
- I2C(2), UART(5), SPI(2), GPIO(TBD)

MECHANICAL
- Dimensions: 16.7 x 26.3 mm
- PCB-mount
- On-board Antenna
- Antenna Connector
- Operating Temp: -40 to +85 Deg C

APPLICATIONS
- Connected Home
- Security
- Appliances
- Audio
- C&I Lighting
- Building Automation
- C&I Sensors
- HMI
- Medical

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