

Features

- Qualcomm Atheros QCN6274;
- Qualcomm Atheros QCN9274 for Industrial Grade;
- Maxim Tx power 20dBm per chain;
- 4x4 2.4GHz MU-MIMO, up to 1376Mbps physical data rate;
- M.2 connector;
- PCI Express 3.0 Interface;



Applications

- Security Surveillance
- Commercial radio coverage
- Hotel Wireless application
- Country coverage
- Forest fire protection engineering
- Some special scene application

Product Description

DR9274-2.4G based on QCN9274 or QCN6274 Chipset is an enterprise wireless module integrated with 4x4 MU-MIMO Single Band Wireless Module designed specifically to provide users with mobile access to high-bandwidth video streaming, voice, and data transmission for office and challenging RF environment in factories, warehouses establishment.

Absolute Maximum Rating

| Parameter | Rating | Unit |
|-----------------------------|-------------------------|------|
| Operating Temperature Range | -20 ~ 70 | °C |
| Storage Temperature Range | -40 ~ 85 | °C |
| Operating Humidity Range | 5 ~ 95 (non-condensing) | % |
| Storage Humidity Range | 0 ~ 90 (non-condensing) | % |

Hardware Specifications

| Symbol | Parameter |
|----------------------------------|--|
| Chipset | Qualcomm Atheros QCN9274(QCN6274) |
| WLAN Host Interface | PCI Express 3.0 Interface |
| System Memory | 2Mbit serial I ² C bus EEPROM |
| Standard Operating Voltage | 5V |
| Operating Systems | QSDK |
| Host Interface | M.2 E Key interface with PCIe 3.0 |
| Antenna Cable / Port | 4x ufl Connectors |
| Frequency Range | 2.4GHz: 2.412~2.472GHz |
| Data Rates for WALN | 2.4GHz 802.11b/g/n/ax/be, max 20dBm per chain |
| Channel Spectrum Widths for WLAN | Supports 20/40MHz at 2.4GHz |
| Modulation Techniques | OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM,1024QAM; 4K QAM |
| Temperature Range | Operating: -20 °C to 70 °C, Storage: -40 °C to 85 °C |
| Humidity | Operating: 5% to 95%, Storage: Max. 90% |
| Certification | REACH & RoHS Compliance |
| Power Consumption | 10W (Maximum) , 8W(Normally) |
| Dimensions (WxHxD) | 30mm x 50mm x 14.5mm |

RF Performance Table at 2.4GHz

| Operating Mode | Data Rate | Power | | RX Specificatioos Sensitivity | Tolerance |
|-----------------------------|-----------|-----------|---------|----------------------------------|-----------|
| | | Per Chain | 2 Chain | | |
| 2.4GHz 802.11be EHT20 | MCS 0 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 1 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 2 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 3 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 4 | 19dBm | 22dBm | TBD | ±2dB |
| | MCS 5 | 19dBm | 22dBm | TBD | ±2dB |
| | MCS 6 | 19dBm | 22dBm | TBD | ±2dB |
| | MCS 7 | 18dBm | 21dBm | TBD | ±2dB |
| | MCS 8 | 18dBm | 21dBm | TBD | ±2dB |
| | MCS 9 | 17dBm | 20dBm | TBD | ±2dB |
| | MCS 10 | 17dBm | 20dBm | TBD | ±2dB |
| | MCS 11 | 17dBm | 20dBm | TBD | ±2dB |
| | MCS 12 | 16dBm | 19dBm | TBD | ±2dB |
| MCS 13 | 16dBm | 19dBm | TBD | ±2dB | |
| 2.4GHz 802.11be EHT40 | MCS 0 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 1 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 2 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 3 | 20dBm | 23dBm | TBD | ±2dB |
| | MCS 4 | 19dBm | 22dBm | TBD | ±2dB |
| | MCS 5 | 19dBm | 22dBm | TBD | ±2dB |
| | MCS 6 | 19dBm | 22dBm | TBD | ±2dB |
| | MCS 7 | 18dBm | 21dBm | TBD | ±2dB |
| | MCS 8 | 18dBm | 21dBm | TBD | ±2dB |



DR9274-2.4G

WiFi7 4x4 2.4G MU-MIMO single band WiFi Module

| | | | | | |
|--|--------|-------|-------|-----|------|
| | MCS 9 | 17dBm | 20dBm | TBD | ±2dB |
| | MCS 10 | 17dBm | 20dBm | TBD | ±2dB |
| | MCS 11 | 17dBm | 20dBm | TBD | ±2dB |
| | MCS 12 | 16dBm | 19dBm | TBD | ±2dB |
| | MCS 13 | 16dBm | 19dBm | TBD | ±2dB |

Version

| NO | Name | Mainchip |
|----|--------------|----------|
| 1 | DR9274-2.4G1 | QCN9274 |
| 2 | DR9274-2.4G | QCN6274 |