

Features

- Qualcomm Atheros QCN6274;
- Qualcomm Atheros QCN9274 for Industrial Grade;
- Maxim Tx power 23dBm 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 23dBm 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