

Features

- Qualcomm Atheros QCN9074
- 5GHz, max 23dBm per chain, up to 4949Mbps
- Single Band 5GHz 4x4 WiFi 6 (802.11ax)
- 4 spatial streams (4SS)
- M.2 E Key Interface
- PCI Express 3.0 Interface
- Supports Dynamic Frequency Selection (DFS)

Applications

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



Product Description

DR9074-5G(PN02.1) based on QCN9074 Chipset is an enterprise wireless module integrated with 4x4 MU-MIMO 5GHz 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 to 70	°C
Storage Temperature Range	-40 to 90	°C
Operating Humidity Range	5 to +95 (non-condensing)	%
Storage Humidity Range	0 to +90 (non-condensing)	%

Hardware Specifications

Symbol	Parameter
Chipset	Qualcomm Atheros QCN9074
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
Antenna Cable / Port	4 x MMCX Connectors,4T4R
Frequency Range	5.15GHz-5.95GHz
Data Rates for WALN	5GHz, max 23dBm per chain, up to 4949Mbps
Channel Spectrum Widths for WLAN	Support 20/40/80/160MHz at 5GHz
Modulation Techniques	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
Temperature Range	Operating: -20° C to 70° C, Storage: -40° C to 90° C
Humidity	Operating: 5% to 95% (non-condensing), Storage: Max. 90% (non-condensing)
Certification	TBD
Power Consumption	TBD
Reference Design	PN02.1
Dimensions (WxHxD)	57mm x 63mm x 6mm