

Features

- Qualcomm QCN6274 'Waikiki' series for Commercial grade;
- Qualcomm QCN9274 'Waikiki' series for Industrial grade;
- Max 19 dBm per chain;
- 5GHz, 2x2 MU-MIMO, up to 2882 Mbps physical data rate;
- 6GHz, 2x2 MU-MIMO, up to 5765 Mbps physical data rate;
- MiniPCIe Interface with PCIe 3.0;



Applications

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

Product Description

DR9274E based on QCN9274/QCN6274 Chipset is an enterprise wireless module integrated with 2x2 5G & 2x2 6G MU-MIMO Dual 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.



Hardware Specifications

Symbol	Parameter
Chipset	Qualcomm QCN6274 'Waikiki' series for Commercial grade Qualcomm QCN9274 'Waikiki' series for Industrial grade
Wireless	5GHz 802.11a/n/ax/be, max 19 dBm per chain 6GHz 802.11a/n/ax/be, max 19 dBm per chain 4x U.FL Connectors
Frequency Range	5GHz: 5.150~5.825GHz
	6GHz: 5.945~7.125GHz
Modulation Techniques	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM, 4096QAM
Wireless	5GHz, 2x2 MU-MIMO, up to 2882 Mbps physical data rate
	6GHz, 2x2 MU-MIMO, up to 5765 Mbps physical data rate
Bandwidth	Supports 20/40/80/160 MHz at 5GHz Supports 20/40/80/160/320 MHz at 6GHz
Power Supply	3.3V
Interface	MiniPCle Interface with PCIe 3.0
Environmental Temperature	Operating(Commercial Grade): -20°C to 70°C, Operating(Industrial Grade): -40°C to 85°C,
Storage Temperature	Storage: -40°C to 90°C
Environmental Humidity, Non-Condensing	Operating: 5% to 95%, Storage: Max. 90%
Power Consumption	9W Maxim
Certification	REACH & RoHS Compliance
Dimensions (W x H x D) in mm	30 X 50.8 X 12.5 mm

RF Performance Table at 5GHz

Operating Mode	Data Rate	TX Power		RX Specifications	Tolerance
		Per Chain	4 Chains		
5GHz 802.11be EHT20	MCS0	19dBm	22dBm	-92dBm	±2dB
	MCS1	18dBm	21dBm	-90dBm	±2dB
	MCS2	17dBm	20dBm	-87dBm	±2dB
	MCS3	17dBm	20dBm	-85dBm	±2dB
	MCS4	16dBm	19dBm	-83dBm	±2dB
	MCS5	16dBm	19dBm	-81dBm	±2dB
	MCS6	15dBm	18dBm	-78dBm	±2dB
	MCS7	15dBm	18dBm	-76dBm	±2dB
	MCS8	14dBm	17dBm	-75dBm	±2dB
	MCS9	14dBm	17dBm	-72dBm	±2dB
	MCS10	13dBm	16dBm	-69dBm	±2dB
	MCS11	13dBm	16dBm	-66dBm	±2dB
	MCS12	12dBm	15dBm	-62dBm	±2dB
	MCS13	12dBm	15dBm	-59dBm	±2dB
5GHz 802.11be ETH40	MCS0	19dBm	22dBm	-90dBm	±2dB
	MCS1	18dBm	21dBm	-88dBm	±2dB
	MCS2	17dBm	20dBm	-87dBm	±2dB
	MCS3	17dBm	20dBm	-85dBm	±2dB
	MCS4	16dBm	19dBm	-82dBm	±2dB
	MCS5	16dBm	19dBm	-79dBm	±2dB
	MCS6	15dBm	18dBm	-77dBm	±2dB
	MCS7	15dBm	18dBm	-75dBm	±2dB
	MCS8	14dBm	17dBm	-72dBm	±2dB
	MCS9	14dBm	17dBm	-69dBm	±2dB
	MCS10	13dBm	16dBm	-66dBm	±2dB
	MCS11	13dBm	16dBm	-63dBm	±2dB
	MCS12	12dBm	15dBm	-59dBm	±2dB
	MCS13	12dBm	15dBm	-56dBm	±2dB
5GHz 802.11be EHT160	MCS0	19dBm	22dBm	-88dBm	±2dB
	MCS1	18dBm	21dBm	-86dBm	±2dB
	MCS2	17dBm	20dBm	-83dBm	±2dB
	MCS3	17dBm	20dBm	-80dBm	±2dB
	MCS4	16dBm	19dBm	-78dBm	±2dB
	MCS5	16dBm	19dBm	-76dBm	±2dB
	MCS6	15dBm	18dBm	-74dBm	±2dB
	MCS7	15dBm	18dBm	-71dBm	±2dB
	MCS8	14dBm	17dBm	-68dBm	±2dB
	MCS9	14dBm	17dBm	-66dBm	±2dB
	MCS10	13dBm	16dBm	-63dBm	±2dB
	MCS11	13dBm	16dBm	-60dBm	±2dB
	MCS12	12dBm	15dBm	-56dBm	±2dB
	MCS13	12dBm	15dBm	-53dBm	±2dB

RF Performance Table at 6GHz

Operating Mode	Data Rate	TX Power		RX Specifications	Tolerance
		Per Chain	4 Chains		
6GHz 802.11be EHT20	MCS0	19dBm	22dBm	-92dBm	±2dB
	MCS1	18dBm	21dBm	-90dBm	±2dB
	MCS2	17dBm	20dBm	-87dBm	±2dB
	MCS3	17dBm	20dBm	-85dBm	±2dB
	MCS4	16dBm	19dBm	-83dBm	±2dB
	MCS5	16dBm	19dBm	-81dBm	±2dB
	MCS6	15dBm	18dBm	-78dBm	±2dB
	MCS7	15dBm	18dBm	-76dBm	±2dB
	MCS8	14dBm	17dBm	-75dBm	±2dB
	MCS9	14dBm	17dBm	-72dBm	±2dB
	MCS10	13dBm	16dBm	-69dBm	±2dB
	MCS11	13dBm	16dBm	-66dBm	±2dB
	MCS12	12dBm	15dBm	-62dBm	±2dB
	MCS13	12dBm	15dBm	-59dBm	±2dB
6GHz 802.11be EHT40	MCS0	19dBm	22dBm	-90dBm	±2dB
	MCS1	18dBm	21dBm	-88dBm	±2dB
	MCS2	17dBm	20dBm	-87dBm	±2dB
	MCS3	17dBm	20dBm	-85dBm	±2dB
	MCS4	16dBm	19dBm	-82dBm	±2dB
	MCS5	16dBm	19dBm	-79dBm	±2dB
	MCS6	15dBm	18dBm	-77dBm	±2dB
	MCS7	15dBm	18dBm	-75dBm	±2dB
	MCS8	14dBm	17dBm	-72dBm	±2dB
	MCS9	14dBm	17dBm	-69dBm	±2dB
	MCS10	13dBm	16dBm	-66dBm	±2dB
	MCS11	13dBm	16dBm	-63dBm	±2dB
	MCS12	12dBm	15dBm	-59dBm	±2dB
	MCS13	12dBm	15dBm	-56dBm	±2dB
6GHz 802.11be EHT80	MCS0	19dBm	22dBm	-88dBm	±2dB
	MCS1	18dBm	21dBm	-86dBm	±2dB
	MCS2	17dBm	20dBm	-83dBm	±2dB
	MCS3	17dBm	20dBm	-80dBm	±2dB
	MCS4	16dBm	19dBm	-78dBm	±2dB
	MCS5	16dBm	19dBm	-76dBm	±2dB
	MCS6	15dBm	18dBm	-74dBm	±2dB
	MCS7	15dBm	18dBm	-71dBm	±2dB
	MCS8	14dBm	17dBm	-68dBm	±2dB
	MCS9	14dBm	17dBm	-66dBm	±2dB
	MCS10	13dBm	16dBm	-63dBm	±2dB
	MCS11	13dBm	16dBm	-60dBm	±2dB
	MCS12	12dBm	15dBm	-56dBm	±2dB
	MCS13	12dBm	15dBm	-53dBm	±2dB
	MCS0	19dBm	22dBm	-84dBm	±2dB

6GHz 802.11be EHT160	MCS1	18dBm	21dBm	-82dBm	±2dB
	MCS2	17dBm	20dBm	-80dBm	±2dB
	MCS3	17dBm	20dBm	-78dBm	±2dB
	MCS4	16dBm	19dBm	-75dBm	±2dB
	MCS5	16dBm	19dBm	-72dBm	±2dB
	MCS6	15dBm	18dBm	-70dBm	±2dB
	MCS7	15dBm	18dBm	-68dBm	±2dB
	MCS8	14dBm	17dBm	-65dBm	±2dB
	MCS9	14dBm	17dBm	-63dBm	±2dB
	MCS10	13dBm	16dBm	-60dBm	±2dB
	MCS11	13dBm	16dBm	-58dBm	±2dB
	MCS12	12dBm	15dBm	-53dBm	±2dB
	MCS13	12dBm	15dBm	-50dBm	±2dB
6GHz 802.11be EHT320	MCS0	19dBm	22dBm	-82dBm	±2dB
	MCS1	18dBm	21dBm	-79dBm	±2dB
	MCS2	17dBm	20dBm	-76dBm	±2dB
	MCS3	17dBm	20dBm	-73dBm	±2dB
	MCS4	16dBm	19dBm	-70dBm	±2dB
	MCS5	16dBm	19dBm	-67dBm	±2dB
	MCS6	15dBm	18dBm	-63dBm	±2dB
	MCS7	15dBm	18dBm	-61dBm	±2dB
	MCS8	14dBm	17dBm	-58dBm	±2dB
	MCS9	14dBm	17dBm	-56dBm	±2dB
	MCS10	13dBm	16dBm	-53dBm	±2dB
	MCS11	13dBm	16dBm	-51dBm	±2dB
	MCS12	12dBm	15dBm	-49dBm	±2dB
	MCS13	12dBm	15dBm	-47dBm	±2dB

Version

Version	Chip
DR9274E	QCN6274
DR9274E-I	QCN9274

Chip Features

		QCN6274	QCN9274
Band Support	4 Single Bands	Support	Support
	2+2 Dual Bands	Support	Support
	2.4Ghz	Support	Support
	4.9GHz		Support
	5GHz	Support	Support
	6GHz	Support	Support
Performance	4K QAM	Support	Support
	Clients	256	512
	OFDMA uses	16	37
	DL OFDMA+TX BF	Support	Support
	DL/UL MU-MIMO	Support	Support
	MLO	Support	Support
	Puncture	Static	Static & Dynamic
Security	AES-CCMP/AES-GCMP	128/256	128/256
	WEP	Support	Support
	WPA/WPA2/WPA3	Support	Support
	FIPS	Support	Support