

Features

- Qualcomm Atheros QCN6122
- 6GHz, max 23dBm per chain, up to 2402Mbps
- Single Band 6GHz 2x2 WiFi 6E (802.11ax)
- 2 spatial streams (2SS)
- M.2 E Key Interface
- 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

DR6122-6E based on QCN6122 Chipset is an enterprise wireless module integrated with 2x2 MU-MIMO 6GHz 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 QCN6122
WLAN Host Interface	PCI Express 3.0 Interface
System Memory	No, Caldata saved in DR5018's Flash
Standard Operating Voltage	5V
Operating Systems	QSDK
Host Interface	M.2 E Key
Antenna Cable / Port	2 x UFL connector, 2T2R
Frequency Range	5.925GHz-7.125GHz
Data Rates for WALN	6GHz, max 23dBm per chain, up to 2402Mbps
Channel Spectrum Widths for WLAN	Support 20/40/80/ 160MHz at 6GHz
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
Dimensions (WxHxD)	35mm x 58mm x 6mm

Product Version

	P/N	CPU	Chains	Frequency
1	DR6122-6E	QCN6122	2	5950-7150

RF Parameter(5.15GHz-5.95GHz)

Operating Mode	Data Rate	TX Power	RX Sensitivity	Tolerance
6GHz 802.11a	6Mbps	27dbm	-96	±2dB
	54Mbps	25dbm	-81	±2dB
6Ghz 802.11n/ac VHT20	MCS0	27dbm	-96	±2dB
	MCS7	25dbm	-78	±2dB
	MCS8	24dBm	-76	±2dB
6Ghz 802.11n/ac VHT40	MCS0	27dbm	-93	±2dB
	MCS7	25dBm	-75	±2dB
	MCS8	24dBm	-73	±2dB
	MCS9	23dBm	-72	±2dB
6Ghz 802.11n/ac VHT80	MCS0	26dbm	-90	±2dB
	MCS7	25dBm	-72	±2dB
	MCS8	24dBm	-70	±2dB
	MCS9	23dBm	-68	±2dB
6Ghz 802.11ax HE20	MCS0	27dbm	-95	±2dB
	MCS9	23dBm	-74	±2dB
	MCS10	22dBm	-69	±2dB
	MCS11	22dBm	-66	±2dB
6Ghz 802.11ax HE40	MCS0	27dbm	-92	±2dB
	MCS9	23dBm	-71	±2dB
	MCS10	22dBm	-66	±2dB
	MCS11	22dBm	-63	±2dB
6Ghz 802.11ax HE80	MCS0	26dbm	-89	±2dB
	MCS9	24dBm	-68	±2dB
	MCS10	22dBm	-63	±2dB



DR6122-6E

WiFi 6E (802.11ax)2x2 MU-MIMO 6GHz
QCN6122 Single Band Wireless Module

	MCS11	20dBm	-60	± 2 dB
6Ghz 802.11ax HE160	MCS0	24dbm	-86	± 2 dB
	MCS9	21dBm	-65	± 2 dB
	MCS10	20dBm	-60	± 2 dB
	MCS11	17dBm	-57	± 2 dB