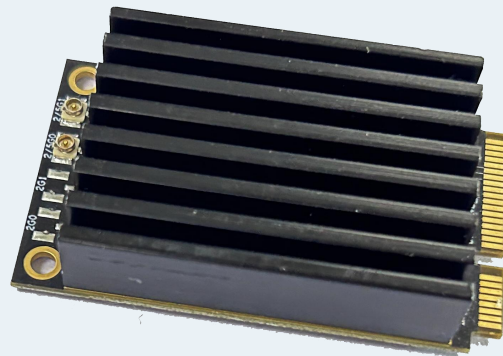


DR9274E-TB

WiFi7 Triband 2.4G&5G&6G module



DR9274E-TB



Features

- Qualcomm QCN6274 'Waikiki' series for Commercial grade ;
- Qualcomm QCN9274 'Waikiki' series for Industrial grade ;
- 2 x 2 2.4 GHz MU-MIMO, up to 1376Mbps physical data rate;
- 2 x 2 5 G MU-MIMO, up to 5765Mbps physical data rate;
- 2x2 6GHz, MU-MIMO, up to 5765 Mbps physical data rate;
- Mini PCIe Interface with PCIe 3.0

Version	Chip
DR9274E-TB	QCN6274
DR9274E-TBI	QCN9274

DR9274E-TB



Symbol	Parameter
Chipset	Qualcomm QCN6274 'Waikiki' series for Commercial grade Qualcomm QCN9274 'Waikiki' series for Industrial grade
Wireless	<ul style="list-style-type: none">• 2.4GHz 802.11 a/n/ax/be, max 20 dBm per chain• 5GHz 802.11a/n/ax/be, max 20 dBm per chain• 6GHz 802.11a/n/ax/be, max 19 dBm per chain ;• 2x U.FL antenna Connectors
Frequency Range	<ul style="list-style-type: none">• 2.4GHz: 2.412 ~2.482GHz• 5GHz & 6G: 5150-7125GHz
Modulation Techniques	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM,1024QAM, 4096QAM
Wireless	<ul style="list-style-type: none">• 2 x 2 2.4GHz MU-MIMO, up to 1376Mbps physical data rate;• 2 x 2 5G MU-MIMO, up to 5765Mbps physical data rate;• 2x2 6GHz, MU-MIMO, up to 5765 Mbps physical data rate;
Bandwidth	<ul style="list-style-type: none">• Supports 20/40MHz at 2.4GHz• Supports 20/40/80/160MHz at 5GHz• Supports 20/40/80/160/ 320MHz at 6GHz
Power Supply	3.3V

DR9274E-TB



Interface	Mini PCIe 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

DR9274E-TB



	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	6GHz 802.11be EHT20	MCS0	19dBm	22dBm	-92dBm
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	

DR9274E-TB



	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	6GHz 802.11be EHT40	MCS0	19dBm	22dBm	-90dBm
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	

DR9274E-TB



	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	6GHz 802.11be EHT80	MCS0	19dBm	22dBm	-88dBm
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	

DR9274E-TB



	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	6GHz 802.11be EHT160	MCS0	19dBm	22dBm	-84dBm
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	

DR9274E-TB



	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	6GHz 802.11be EHT320	MCS0	19dBm	22dBm	-82dBm
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	

DR9274E-TB



5 GHz 802.11be EHT20	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	MCS0	20dbm	23 dbm	-93dbm	±2dB
	MCS1	19dbm	22 dbm	-90dbm	±2dB
	MCS2	18dbm	21 dbm	-87dbm	±2dB
	MCS3	18dbm	21 dbm	-85dbm	±2dB
	MCS4	17dbm	20 dbm	-83dbm	±2dB
	MCS5	17dbm	20dbm	-81 dbm	±2dB
	MCS6	16dbm	19dbm	-78dbm	±2dB
	MCS7	16dbm	19dbm	-76dbm	±2dB
	MCS8	15dbm	18dbm	-75dbm	±2dB
	MCS9	15dbm	18dbm	-72dbm	±2dB
	MCS10	14dbm	17dbm	-69dbm	±2dB
	MCS11	14dbm	17dbm	-66dbm	±2dB
MCS12	13dbm	16dbm	-62dbm	±2dB	
MCS13	13dbm	16dbm	-59dbm	±2dB	

DR9274E-TB



5 GHz 802.11be EHT40	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	MCS0	20dbm	23 dbm	-90dbm	±2dB
	MCS1	19dbm	22 dbm	-88dbm	±2dB
	MCS2	18dbm	21 dbm	-87dbm	±2dB
	MCS3	18dbm	21 dbm	-85dbm	±2dB
	MCS4	17dbm	20 dbm	-82dbm	±2dB
	MCS5	17dbm	20dbm	-79dbm	±2dB
	MCS6	16dbm	19dbm	-77dbm	±2dB
	MCS7	16dbm	19dbm	-75dbm	±2dB
	MCS8	15dbm	18dbm	-72dbm	±2dB
	MCS9	15dbm	18dbm	-69dbm	±2dB
	MCS10	14dbm	17dbm	-66dbm	±2dB
	MCS11	14dbm	17dbm	-63dbm	±2dB
MCS12	13dbm	16dbm	-59dbm	±2dB	
MCS13	13dbm	16dbm	-56dbm	±2dB	

DR9274E-TB



5 GHz 802.11be EHT80	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	MCS0	20dbm	23 dbm	-88dbm	±2dB
	MCS1	19dbm	22 dbm	-86dbm	±2dB
	MCS2	18dbm	21 dbm	-83dbm	±2dB
	MCS3	18dbm	21 dbm	-80dbm	±2dB
	MCS4	17dbm	20 dbm	-78dbm	±2dB
	MCS5	17dbm	20dbm	-76dbm	±2dB
	MCS6	16dbm	19dbm	-74dbm	±2dB
	MCS7	16dbm	19dbm	-71dbm	±2dB
	MCS8	15dbm	18 dbm	-68dbm	±2dB
	MCS9	15dbm	18 dbm	-66dbm	±2dB
	MCS10	14dbm	17 dbm	-63dbm	±2dB
	MCS11	14dbm	17 dbm	-60dbm	±2dB
MCS12	13 dbm	16 dbm	-56dbm	±2dB	
MCS13	13 dbm	16 dbm	-53dbm	±2dB	

DR9274E-TB



5 GHz 802.11be EHT160	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	MCS0	20dbm	23 dbm	-84dbm	±2dB
	MCS1	19dbm	22 dbm	-82dbm	±2dB
	MCS2	18dbm	21 dbm	-80dbm	±2dB
	MCS3	18dbm	21 dbm	-78dbm	±2dB
	MCS4	17dbm	20 dbm	-75dbm	±2dB
	MCS5	17dbm	20dbm	-72dbm	±2dB
	MCS6	16dbm	19 dbm	-70dbm	±2dB
	MCS7	16dbm	19dbm	-68dbm	±2dB
	MCS8	15dbm	18 dbm	-65dbm	±2dB
	MCS9	15dbm	18 dbm	-63dbm	±2dB
	MCS10	14dbm	17 dbm	-60dbm	±2dB
	MCS11	14dbm	17 dbm	-58dbm	±2dB
MCS12	13 dbm	16 dbm	-53dbm	±2dB	
MCS13	13 dbm	16 dbm	-50dbm	±2dB	

DR9274E-TB



2.4GHz 802.11be EHT20	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	MCS0	20dbm	23 dbm	-92dbm	±2dB
	MCS1	20dbm	23 dbm	-90dbm	±2dB
	MCS2	20dbm	23 dbm	-87dbm	±2dB
	MCS3	19dbm	22dbm	-85dbm	±2dB
	MCS4	18dbm	21 dbm	-83dbm	±2dB
	MCS5	17dbm	20dbm	-81 dbm	±2dB
	MCS6	16dbm	19dbm	-78dbm	±2dB
	MCS7	15.5dbm	18.5dbm	-76dbm	±2dB
	MCS8	15dbm	18dbm	-75dbm	±2dB
	MCS9	15dbm	18dbm	-72dbm	±2dB
	MCS10	14dbm	17dbm	-69dbm	±2dB
	MCS11	14dbm	17dbm	-66dbm	±2dB
MCS12	13dbm	16dbm	-62dbm	±2dB	
MCS13	13dbm	16dbm	-59dbm	±2dB	

DR9274E-TB



2.4GHz 802.11be EHT40	Data Rate	TX Power (one chain)	TX Power (two chains)	RX Specifications Sensitivity	Tolerance
	MCS0	20dbm	23 dbm	-90dbm	±2dB
	MCS1	20dbm	23 dbm	-88dbm	±2dB
	MCS2	20dbm	23 dbm	-87dbm	±2dB
	MCS3	19dbm	22dbm	-85dbm	±2dB
	MCS4	18dbm	21 dbm	-82dbm	±2dB
	MCS5	17dbm	20dbm	-79dbm	±2dB
	MCS6	16dbm	19dbm	-77dbm	±2dB
	MCS7	15.5dbm	18.5dbm	-75dbm	±2dB
	MCS8	15dbm	18dbm	-72dbm	±2dB
	MCS9	15dbm	18dbm	-69dbm	±2dB
	MCS10	14dbm	17dbm	-66dbm	±2dB
	MCS11	14dbm	17dbm	-63dbm	±2dB
MCS12	13dbm	16dbm	-59dbm	±2dB	
MCS13	13dbm	16dbm	-56dbm	±2dB	

Pin out

PIN	Description	PIN	Description
2	VDD3P3_PCIE	1	PCIEO_WAKE_3P3_N
4	GND	3	NC
6		5	NC
8		7	PCIEO_CLKREO_3P3_N
10		9	GND
12		11	PCIEO_REFCLK_N
14		13	PCIEO_REFCLK_P
16		15	GND
18	GND	17	
20		19	
22	PCIE_RST	21	GND
24	VDD3P3_PCIE	23	PCIEO_TXO_N
26	GND	25	PCIEO_TXO_P

PIN	Description	PIN	Description
28		27	GND
30		29	GND
32		31	PCIEO_RXO_N
34	GND	33	PCIEO_RXO_P
36		35	GND
38		37	GND
40	GND	39	VDD3P3_PCIE
42		41	VDD3P3_PCIE
44	PCIE_LED0	43	GND
46	PCIE_LED1	45	
48		47	
50	GND	49	
52	VDD3P3_PCIE	51	



WALLYS

DR 9 2 7 4 E - TB