

JWX6055

802.11ac/abgn 2T2R Half Mini-PCI-Express Module

Technical Specifications

Standards

Data Rate

Operating Frequency

Interface

Modulation

Recommended Operating Conditions

Output Power & Sensitivity

STANDARDS

Wireless: IEEE 802.11ac/abgn (2T2R) / Chipset: Qualcomm Atheros QCA9882

DATA RATE

802.11b: 11Mbps / 802.11a/g: 54Mbps / 802.11n: 300Mbps / 802.11ac: 867Mbps

OPERATING FREQUENCY

IEEE 802.11 ac/abgn ISM Band, 2.412GHz ~ 2.472GHz, 5150MHz ~ 5825MHz

INTERFACE

Mini PCI-e, Antenna Ports : U.FL * 2 for 2T2R

MODULATION

802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)

RECOMMENDED OPERATING CONDITIONS

Operating Voltage: DC 3.3V $\pm$ 5%

Operating Temperature Range: -20°C to 70°C

Storage Temperature Range: -40°C to +80°C

Operating Humidity (non-condensing): 10% ~ 90%

Storage Humidity (non-condensing): 5% to 90%

Dimension (in mm): 29.79 x 26.75 mm

OUTPUT POWER & SENSITIVITY

802.11b g		
Data Rate	Tx +/- 2dB (1TX)	Rx Sensitivity +/- 2dB
1~11Mbps	20dBm	-90dBm
6Mbps	21dBm	-91dBm
9Mbps	21dBm	-90dBm
12Mbps	21dBm	-90dBm
18Mbps	21dBm	-87dBm
24Mbps	21dBm	-84dBm
36Mbps	20dBm	-79dBm
48Mbps	19dBm	-77dBm
54Mbps	18dBm	-75dBm

802.11n / 2.4 GHz				
	Data Rate	Tx +/- 2dB (1TX)	Tx +/- 2dB (2TX)	Rx Sensitivity +/- 2dB
HT20	MCS 0	21dBm	24dBm	-92dBm
	MCS 1	21dBm	24dBm	-92dBm
	MCS 2	21dBm	24dBm	-90dBm
	MCS 3	21dBm	24dBm	-86dBm
	MCS 4	21dBm	24dBm	-83dBm
	MCS 5	20dBm	23dBm	-78dBm
	MCS 6	20dBm	23dBm	-77dBm
	MCS 7	18dBm	22dBm	-76dBm
HT40	MCS 0	20dBm	23dBm	-90dBm
	MCS 1	20dBm	23dBm	-89dBm
	MCS 2	20dBm	23dBm	-87dBm
	MCS 3	20dBm	23dBm	-84dBm
	MCS 4	20dBm	23dBm	-80dBm
	MCS 5	19dBm	22dBm	-76dBm
	MCS 6	19dBm	22dBm	-75dBm
	MCS 7	18dBm	21dBm	-73dBm

802.11a		
Data Rate	Tx +/- 2dB (1TX)	Rx Sensitivity +/- 2dB
6Mbps	20dBm	-92dBm
9Mbps	20dBm	-90dBm
12Mbps	20dBm	-88dBm
18Mbps	20dBm	-86dBm
24Mbps	20dBm	-82dBm
36Mbps	18dBm	-78dBm
48Mbps	16dBm	-75dBm
54Mbps	15dBm	-74dBm

802.11n / 5GHz				
	Data Rate	Tx +/- 2dB (1TX)	Tx +/- 2dB (2TX)	Rx Sensitivity +/- 2dB
HT20	MCS 0	19dBm	22dBm	-93dBm
	MCS 1	19dBm	22dBm	-91dBm
	MCS 2	19dBm	22dBm	-89dBm
	MCS 3	19dBm	22dBm	-85dBm
	MCS 4	19dBm	22dBm	-81dBm
	MCS 5	18dBm	21dBm	-77dBm
	MCS 6	17dBm	20dBm	-76dBm
	MCS 7	16dBm	19dBm	-74dBm
HT40	MCS 0	18dBm	21dBm	-90dBm
	MCS 1	18dBm	21dBm	-88dBm
	MCS 2	18dBm	21dBm	-86dBm
	MCS 3	18dBm	21dBm	-82dBm
	MCS 4	18dBm	21dBm	-79dBm
	MCS 5	17dBm	20dBm	-75dBm
	MCS 6	16dBm	19dBm	-73dBm
	MCS 7	15dBm	18dBm	-72dBm

802.11ac				
VHT20	Data Rate	Tx +/- 2dB (1TX)	Tx +/- 2dB (2TX)	Rx Sensitivity +/- 2dB
	MCS 0	19dBm	22dBm	-93dBm
	MCS 1	19dBm	22dBm	-91dBm
	MCS 2	19dBm	22dBm	-89dBm
	MCS 3	19dBm	22dBm	-85dBm
	MCS 4	19dBm	22dBm	-81dBm
	MCS 5	18dBm	21dBm	-77dBm
	MCS 6	17dBm	20dBm	-75dBm
	MCS 7	16dBm	19dBm	-74dBm
	MCS 8	14dBm	17dBm	-70dBm
VHT40	MCS 0	18dBm	21dBm	-91dBm
	MCS 1	18dBm	21dBm	-88dBm
	MCS 2	18dBm	21dBm	-86dBm
	MCS 3	18dBm	21dBm	-81dBm
	MCS 4	18dBm	21dBm	-79dBm
	MCS 5	17dBm	20dBm	-75dBm
	MCS 6	16dBm	19dBm	-74dBm
	MCS 7	15dBm	18dBm	-72dBm
	MCS 8	14dBm	17dBm	-68dBm
	MCS 9	13dBm	16dBm	-66dBm
VHT80	MCS 0	18dBm	21dBm	-87dBm
	MCS 1	18dBm	21dBm	-85dBm
	MCS 2	18dBm	21dBm	-82dBm
	MCS 3	18dBm	21dBm	-79dBm
	MCS 4	18dBm	21dBm	-75dBm
	MCS 5	17dBm	20dBm	-71dBm
	MCS 6	16dBm	19dBm	-70dBm
	MCS 7	15dBm	18dBm	-68dBm
	MCS 8	14dBm	17dBm	-64dBm
	MCS 9	13dBm	16dBm	-62dBm