



# JWX6086

802.11 a/b/g/n 3T3R Mini-PCI-Express Module

## Technical Specifications

Standards

Data Rate

Operating Frequency

Interface

Modulation

Recommended Operating Conditions

Output Power & Sensitivity

### STANDARDS

Wireless: IEEE 802.11a/b/g/n (3T3R) / Chipset: Atheros AR9580

### DATA RATE

802.11b: 11Mbps / 802.11a/g: 54Mbps / 802.11n: 450Mbps

### OPERATING FREQUENCY

IEEE 802.11 a/b/g/n ISM Band, 2.412GHz ~ 2.472GHz, 5150MHz ~ 5850MHz

### INTERFACE

Mini PCI-e, Antenna Ports : U.FL \* 3 for 3T3R

### RECOMMENDED OPERATING CONDITIONS

Operating Voltage: DC 3.3V  $\pm$  0.1V

Temperature Range: -20°C to 70°C

Humidity (non-condensing): 20% ~ 80%

Current consumption: TBD

Dimension (in mm): 50.91 x 30.06 x 3.78mm

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**OUTPUT POWER & SENSITIVITY**

<b>802.11bg</b>		
<b>Data Rate</b>	<b>Tx +/- 2dB</b>	<b>Rx Sensitivity +/- 2dB</b>
1~11Mbps	19dBm	-94dBm
6Mbps	19dBm	-89dBm
9Mbps	19dBm	-89dBm
12Mbps	19dBm	-89dBm
18Mbps	19dBm	-89dBm
24Mbps	19dBm	-87dBm
36Mbps	19dBm	-84dBm
48Mbps	18dBm	-80dBm
54Mbps	17dBm	-78dBm

<b>802.11gn</b>				
	<b>Data Rate</b>	<b>Tx +/- 2dB (1TX)</b>	<b>Tx +/- 2dB (3TX)</b>	<b>Rx Sensitivity +/- 2dB</b>
<b>HT20</b>	MCS 0	19dBm	24dBm	-89dBm
	MCS 1	18dBm	23dBm	-89dBm
	MCS 2	18dBm	23dBm	-89dBm
	MCS 3	18dBm	23dBm	-86dBm
	MCS 4	18dBm	23dBm	-83dBm
	MCS 5	17dBm	22dBm	-78dBm
	MCS 6	17dBm	22dBm	-76dBm
	MCS 7	16dBm	21dBm	-74dBm
<b>HT40</b>	MCS 0	19dBm	24dBm	-86dBm
	MCS 1	18dBm	23dBm	-86dBm
	MCS 2	18dBm	23dBm	-86dBm
	MCS 3	18dBm	23dBm	-83dBm
	MCS 4	18dBm	23dBm	-79dBm
	MCS 5	17dBm	22dBm	-75dBm
	MCS 6	17dBm	22dBm	-73dBm
	MCS 7	16dBm	21dBm	-72dBm

802.11a		
Data Rate	Tx +/- 2dB	Rx Sensitivity +/- 2dB
6Mbps	15dBm	-92dBm
9Mbps	15dBm	-90dBm
12Mbps	15dBm	-89dBm
18Mbps	15dBm	-87dBm
24Mbps	15dBm	-83dBm
36Mbps	14dBm	-80dBm
48Mbps	13dBm	-76dBm
54Mbps	12dBm	-74dBm

802.11a n				
	Data Rate	Tx +/- 2dB (1TX)	Tx +/- 2dB (3TX)	Rx Sensitivity +/- 2dB
HT20	MCS 0	16dBm	21dBm	-90dBm
	MCS 1	15dBm	20dBm	-89dBm
	MCS 2	15dBm	20dBm	-86dBm
	MCS 3	15dBm	20dBm	-81dBm
	MCS 4	14dBm	19dBm	-78dBm
	MCS 5	13dBm	18dBm	-74dBm
	MCS 6	12dBm	17dBm	-72dBm
	MCS 7	11dBm	16dBm	-71dBm
HT40	MCS 0	16dBm	21dBm	-87dBm
	MCS 1	15dBm	20dBm	-85dBm
	MCS 2	15dBm	20dBm	-82dBm
	MCS 3	15dBm	20dBm	-78dBm
	MCS 4	14dBm	19dBm	-75dBm
	MCS 5	13dBm	18dBm	-71dBm
	MCS 6	12dBm	17dBm	-69dBm
	MCS 7	11dBm	16dBm	-67dBm

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