



## MaxRange9

3x3 2.4/5GHz 11n High Power mini PCI Module

### Technical Specifications

Standards  
Data Rate  
Output Power & Sensitivity  
Operating Frequency  
Interface  
Operating Voltage / Temperature

#### STANDARDS

Wireless: IEEE 802.11a/b/g/n (3T3R)  
Chipset : Atheros AR9106 + AR9160

#### DATA RATE

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

#### OUTPUT POWER & SENSITIVITY

802.11a/n Specification	Data Rate	Tx (RMS) +/- 3dB	Rx +/- 3dB	Data Rate	TX (RMS) +/- 3dB	RX +/- 3dB	802.11b/g/n Specification
	6-24Mbps	23 dBm	-97 dBm	6-24(1-11)Mbps	23 dBm	-97 dBm	
	36Mbps	18 dBm	-90 dBm	36Mbps	21 dBm	-90 dBm	
	48Mbps	19 dBm	-86 dBm	48Mbps	19 dBm	-86 dBm	
	54Mbps	18 dBm	-84 dBm	54Mbps	18 dBm	-84 dBm	
	MCS0	22 dBm	-97 dBm	MCS0	22 dBm	-97 dBm	
	MCS1	22 dBm	-96 dBm	MCS1	22 dBm	-96 dBm	
	MCS2	20 dBm	-93 dBm	MCS2	20 dBm	-93 dBm	
	MCS3	20 dBm	-91 dBm	MCS3	20 dBm	-91 dBm	
	MCS4	18 dBm	-87 dBm	MCS4	18 dBm	-87 dBm	
	MCS5	17 dBm	-84 dBm	MCS5	17 dBm	-84 dBm	
	MCS6	16 dBm	-78 dBm	MCS6	16 dBm	-78 dBm	
	MCS7	15 dBm	-75 dBm	MCS7	15 dBm	-75 dBm	
	MCS8	22 dBm	-96 dBm	MCS8	22 dBm	-96 dBm	
	MCS9	22 dBm	-94 dBm	MCS9	22 dBm	-94 dBm	
	MCS10	20 dBm	-91 dBm	MCS10	20 dBm	-91 dBm	
	MCS11	20 dBm	-88 dBm	MCS11	20 dBm	-88 dBm	
	MCS12	18 dBm	-85 dBm	MCS12	18 dBm	-85 dBm	
	MCS13	17 dBm	-80 dBm	MCS13	17 dBm	-80 dBm	
	MCS14	16 dBm	-79 dBm	MCS14	16 dBm	-79 dBm	
	MCS15	15 dBm	-76 dBm	MCS15	15 dBm	-76 dBm	

#### OPERATING FREQUENCY

IEEE 802.11 a/b/g/n ISM Band

USA (FCC): 2.412GHz~2.462 GHz (CH1~CH11), 5150MHz~5350MHz/ 5725MHz-5850MHz

EU (ETSI): 2.412GHz~2.472 GHz (CH1~CH13), 5150MHz~5350MHz/ 5470MHz-5725MHz

Japan(TELEC): 2.412GHz~2.472GHz (CH1~CH13), 5150MHz~5250MHz

#### INTERFACE

32bit Mini PCI Type III A like

Antenna Ports : MMCX x 3 for 3T3R

Dimension : LXW 61mmX59mm

#### OPERATING VOLTAGE / TEMPERATURE

Operating Voltage: DC 3.3V ± 0.1V (Max.Current: 1500mA); Operating temperature: -40°C ~ +80°C