

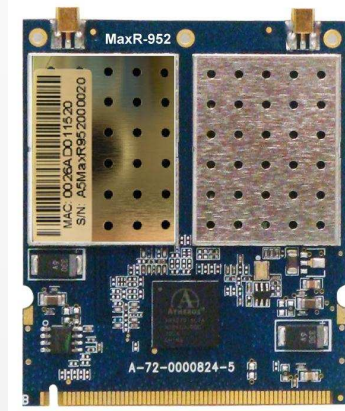
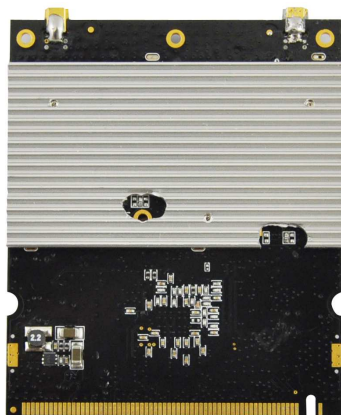
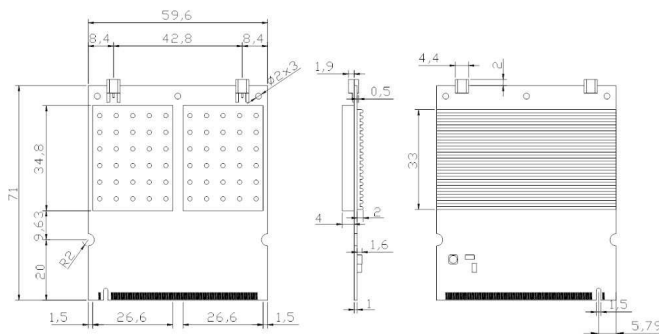
MaxR-952

IEEE802.11 a/n, 400 mW, 2x2

High Power Mini PCI Card

This 400 mW High Power IEEE 802.11 a/n 2x2(2 Streams) Wireless Mini PCI Card is built with industrial-grade components. It is designed for reliable and demanding outdoor, enterprise, and carrier-class applications. The Mini PCI Card interface integrates easily with embedded platform to construct access points, wireless bridges, and consumer premises client equipment. MIMO technology provides higher throughput and farther coverage.

Outline Drawing: (in mm)



Product Highlights:

- Atheros, 9th Generation AR9220 Chipset
- 300 Mbps Data Rate Support
- HT40, Short Guard Interval, Weak Signal Detection, MIMO Power Save
- Spatial Multiplexing, Cyclic-Delay Diversity, Maximal Ratio Combining
- Extended tuning range 5.150 GHz to 5.825 GHz Support
- 20/40 MHz Channel Bandwidth Support
- 400+ mW Output Power
- Industry Best Sensitivity
- Industrial Temperature Range (-40°C to +85°C)
- Hardware Encryption (AES-CCMP, TKIP, WEP)
- Wireless Multimedia Quality of Service support (QoS)
- RoHS Compliant

Technical Specifications

Product Information			
Chipset	Atheros, 9 th Generation AR9220 chipset		
Radio Operation	IEEE 802.11 a/n (2x2, 2 Streams)		
Frequency Range	5.150 GHz to 5.850 GHz		
Channel Bandwidth	20MHz / 40MHz		
Interface	32-bit Mini PCI, type III A		
Dimension	LXW 71 mm x 59 mm		
Operation Voltage	DC 3.3 V +/- 0.1 V		
Antenna Interface	MMCX x 2 (2x2, 2 Streams)		
Temperature Range	-40°C to +85°C		
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP		
Data Rates	6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (11a) MCS0 – MCS15 (11n)		
RoHS Compliance	Yes		
Output Power & Sensitivity			
	Data Rate	Tx (RMS) +/- 3dB	Rx +/- 3dB
802.11a	6-24Mbps	26 dBm 2000mA ± 150 mA	-96 dBm 350mA ± 50 mA
	36Mbps	24 dBm 1800mA ± 150 mA	-87 dBm 350mA ± 50 mA
	48Mbps	23 dBm 1600mA ± 150 mA	-83 dBm 350mA ± 50 mA
	54Mbps	22 dBm 1400mA ± 150 mA	-81 dBm 350mA ± 50 mA
802.11n	MCS0	25 dBm 1900mA ± 150 mA	-96 dBm 350mA ± 50 mA
	MCS1	25 dBm 1900mA ± 150 mA	-96 dBm 350mA ± 50 mA
	MCS2	23 dBm 1600mA ± 150 mA	-93 dBm 350mA ± 50 mA
	MCS3	23 dBm 1600mA ± 150 mA	-91 dBm 350mA ± 50 mA
	MCS4	22 dBm 1500mA ± 150 mA	-87 dBm 350mA ± 50 mA
	MCS5	22 dBm 1500mA ± 150 mA	-84 dBm 350mA ± 50 mA
	MCS6	21 dBm 1400mA ± 150 mA	-80 dBm 350mA ± 50 mA
	MCS7	21 dBm 1400mA ± 150 mA	-77 dBm 350mA ± 50 mA
	MCS8	25 dBm 1900mA ± 150 mA	-95 dBm 350mA ± 50 mA
	MCS9	25 dBm 1900mA ± 150 mA	-95 dBm 350mA ± 50 mA
	MCS10	23 dBm 1600mA ± 150 mA	-92 dBm 350mA ± 50 mA
	MCS11	23 dBm 1600mA ± 150 mA	-90 dBm 350mA ± 50 mA
	MCS12	22 dBm 1500mA ± 150 mA	-86 dBm 350mA ± 50 mA
	MCS13	22 dBm 1500mA ± 150 mA	-83 dBm 350mA ± 50 mA
	MCS14	21 dBm 1400mA ± 150 mA	-79 dBm 350mA ± 50 mA
MCS15	21 dBm 1400mA ± 150 mA	-76 dBm 350mA ± 50 mA	