

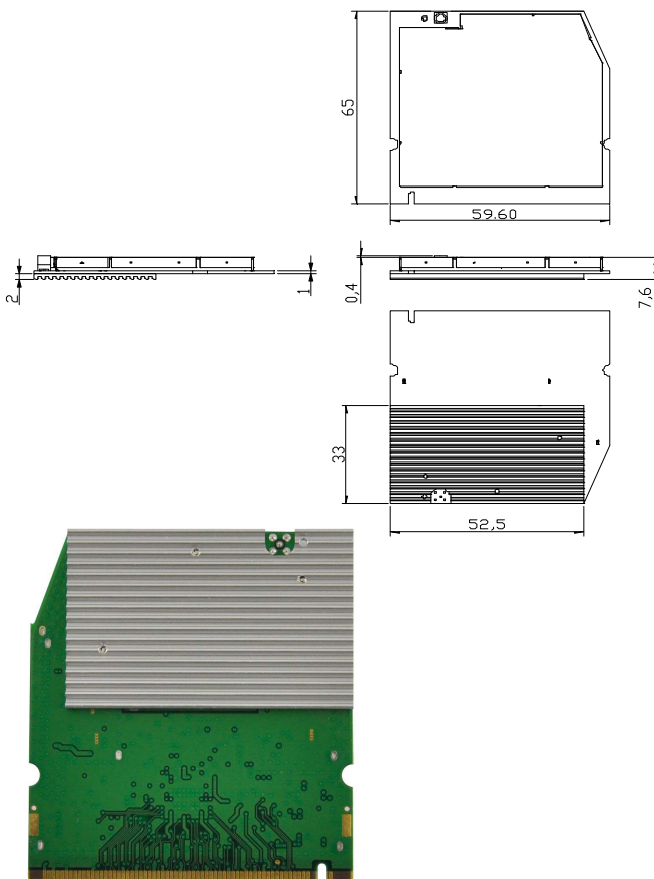
## MaxR-700

700 MHz, 600+ mW

High Power WLAN Mini-PCI card

This 600+ mW High Power 700MHz Wireless Mini PCI Card is built with proprietary power MMICs and industrial-grade components. It is designed for reliable and demanding outdoor, enterprise, and carrier-class applications. The mini PCI interface integrates easily with embedded platforms to construct single or multiple-radio access points, wireless bridges, and consumer premises client equipment.

### Outline Drawing: (in mm)



### Product Highlights:

- Atheros, 6<sup>th</sup> Generation AR5414 Chipset with SuperG/Turbo Support
- Atheros XR eXtended Range Technology Support
- Extended tuning range 763 MHz to 778 MHz Support
- 5/10/20/40 MHz Channel Bandwidth Support
- 600+ mW Output Power
- Industry Best Sensitivity
- Industrial Temperature Range (-40°C to +80°C)
- Hardware Encryption (AES-CCMP, TKIP, WEP)
- Wireless Multimedia Quality of Service support (QoS)
- RoHS Compliant
- MMCX Antenna Connector

## Technical Specifications

Product Information					
Chipset	Atheros, 6 <sup>th</sup> Generation, AR5414 with SuperG/Turbo Support & XR eXtended Range				
Radio Operation	IEEE 802.11 b/g (Mapped to 763 MHz – 778 MHz)				
Frequency Range	763 MHz to 778 MHz (Software mapped to 2.427 GHz – 2.442 GHz)				
Channel Bandwidth	5MHz / 10MHz / 20MHz / 40MHz				
Interface	32-bit Mini PCI, type III B				
Dimension	59.6 x 44.6 x 8.0 mm (including heat sink)				
Operation Voltage	3.3V +/- 0.15V				
Antenna Interface	MMCX Connector				
Temperature Range	-40°C to +80°C				
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152 bit WEP				
Data Rates	1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps (11b) 6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (11g)				
RoHS Compliance	Yes				
Radio RF Specifications					
		TX Specification		RX Specification	
	Data Rate	TX Power	Current	Sensitivity	Current
802.11g	6 Mbps	28±1.5 dBm	1200 ± 100 mA	-92±2.0 dBm	400 mA ± 50 mA
	36 Mbps	24±1.5 dBm	1000 ± 100 mA	-82±2.0 dBm	400 mA ± 50 mA
	48 Mbps	22±1.5 dBm	900 ± 100 mA	-75±2.0 dBm	400 mA ± 50 mA
	54 Mbps	19±1.5 dBm	800 ± 100 mA	-72±2.0 dBm	400 mA ± 50 mA
802.11b	1 Mbps	28±1.5 dBm	1200 ± 100 mA	-95±2.0 dBm	400 mA ± 50 mA
	2 Mbps	28±1.5 dBm	1200 ± 100 mA	-93±2.0 dBm	400 mA ± 50 mA
	5.5 Mbps	28±1.5 dBm	1200 ± 100 mA	-91±2.0 dBm	400 mA ± 50 mA
	11 Mbps	28±1.5 dBm	1200 ± 100 mA	-90±2.0 dBm	400 mA ± 50 mA