

Wireless Mini PCI Card 802.11a/b/g

The 065-1753 Wireless mini PCI card compatible with 802.11a/b/g offers high-speed wireless connection with a data rate up to 108 Mbps. It can provide the speed you need for large file download, digital video and audio transmissions. 065-1753 supports seamless roaming from cell to cell in all types of wireless networks. You can insert this card anywhere to different router boards supporting Atheros chipsets.

The 065-1753 supports advanced security features including 64/128-bit Wired Equivalent Privacy (WEP) & WPA encryption for more secured user network environment.



Model 065-1761

Wireless Mini PCI Card 802.11a/b/g

PART NO.	DESCRIPTION
065-1753	Wireless Mini PCI Card 802.11a/g/b

CHIPSET

Atheros AR5006XS(AR5414A)

INTERFACE

Mini PCI Interface Type IIIA

ENVIRONMENTAL

Dimension: 60 x 45 x 4 mm

Weight: 20 g

Security:

802.11a: 64/128-Bit WEP, WPA

802.11b/g: 64/128-Bit WEP, WPA

Temperature: 0° – 55°C (Operating), -20° – 80°C (Storing)

Humidity: Operating 10-85% Non-Condensing

Storage 5-90% Non-Condensing

Operating Voltage: 3.3V ±5%

REQUIREMENT

System Requirements

Desktop PC containing:

- 32-bit PCI slot

- 64 MB memory or greater

- 300 MHz processor or greater

Microsoft Windows 98 Second Edition/Millennium Edition/2000/Windows XP

Operating Range:

Open Space: Up to 260 m, Indoor: 100 m

The transmission speed varies in the surrounding environment

Network Protocol: TCP/IP, IPX, NDIS4 and NDIS5, NDIS 5.1

Management Utility: Monitor Internet Access Status via UI

Supplied Driver: Windows 98SE/ME/2000/XP, Linux

WARRANTY

2 years

NETWORK STANDARD

IEEE 802.11a, 802.11b, 802.11g

STANDARDS

IEEE 802.3, IEEE 802.3u, IEEE 802.11a, IEEE 802.11b,

IEEE 802.11g draft standard, Wi-Fi compliant

SPECIFICATIONS

RADIO CHARACTERISTICS

Frequency Band:

802.11a: 5.15 – 5.85 GHz (subject to local regulations)

802.11b: ISM band 2.400 – 2.484 GHz (subject to local regulations)

802.11g: ISM band 2.400 – 2.484 GHz (subject to local regulations)

Number of Channel

802.11a: subject to local regulations

802.11b: USA and Canada – 11, Most European countries – 13, Japan – 14, France – 14

802.11g: USA and Canada – 13, Most European countries – 13, Japan – 14

Spreading

802.11a: Orthogonal Frequency Division Multiplexing (OFDM)

802.11b: Direct Sequence Spread Spectrum (DSSS)

802.11g: Orthogonal Frequency Division Multiplexing (OFDM)

Modulation

802.11a/g: 64 QAM, 16 QAM, QPSK, BPSK

802.11b: CCK, DQPSK, DBPSK

Data Rate

802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps per channel, auto fallback for extended range

802.11b: 11, 5.5, 2, 1 Mbps per channel, auto fallback for extended range

802.11g: 108, 54, 48, 36, 24, 18, 12, 9, 6 Mbps per channel, auto fallback for extended range

Antenna: Single antenna with 1dBi antenna gain

at 2.4 GHz band and 2dBi antenna gain at 5 GHz band (External antenna)

Transmitted power

802.11a: 17dBm

802.11g: 18dBm

802.11b: 19dBm

tolerance: +/-1.5dBm

Receive Sensitivity

802.11a/g

Nominal Temp Range:

- 6 Mbps 10-5 BER @ -90 dBm, typical

- 9 Mbps 10-5 BER @ -89 dBm, typical

- 12 Mbps 10-5 BER @ -88 dBm, typical

- 18 Mbps 10-5 BER @ -86 dBm, typical

- 24 Mbps 10-5 BER @ -82 dBm, typical

- 36 Mbps 10-5 BER @ -78 dBm, typical

- 48 Mbps 10-5 BER @ -72 dBm, typical

- 54 Mbps 10-5 BER @ -68 dBm, typical

802.11b

Typ. -88 dBm @ 11 Mbps, +/-2dBm

Typ. -91 dBm @ 5.5 Mbps

Typ. -92 dBm @ 2 Mbps

Typ. -93 dBm @ 1 Mbps

Power consumption (peak)

802.11a

Continue TX: 510 mA @ 3.3V

Continue RX: 250 mA @ 3.3V

802.11b

Continue TX: 380 mA @ 3.3V

Continue RX: 220 mA @ 3.3V

802.11g

Continue TX: 400 mA @ 3.3V

Continue RX: 280 mA @ 3.3V