

2.4/5GHz 802.11a+b+g Wireless Mini-PCI Card (R52)

Turbo, 802.11a, 802.11b and 802.11g IN ONE

- Operates in both 2.4 GHz and 5 GHz wireless bands
- Support MikroTik Nstreme
- Long distances and high speeds
- FCC and CE approval

MikroTik introduces the R52 wireless 802.11a+b+g miniPCI card for multiband high speed applications, it has new Atheros AR5414 chipset with Turbo/Super G (air rate 108Mbps on 802.11g 2.4GHz). R52 works on 2.312-2.499 and 4.920-6.100GHz frequency range.

R52 is optimized to work with MikroTik Nstreme protocol to reach extra long distances at a great speed. The Nstreme protocol is MikroTik proprietary wireless protocol created to overcome speed and distance limitations of IEEE 802.11 standards and to extend point-to-point and point-to-multi point wireless link performance. Nstreme2 works with a pair of wireless cards – one for transmitting data and one for receiving.

Specifications:

Frequencies:

802.11b/g 2.312 – 2.497 (5 MHz step);
802.11a 4.920 – 6.100 (5 MHz step)

Chipset: Atheros AR5414

Security: Hardware 64 and 128 bit WEP; Hardware TKIP and AES-CCM encryption; 802.1x WPA authentication

Modulation: 802.11b+g: DSSS, OFDM for data rate >30Mbps
802.11a: OFDM

Host Interface: Mini-PCI form factor; Mini-PCI Version 1.0 type 3B suggested only for motherboards that are produced after 2004

Power requirements: 3.3V +/- 10% DC; 400mA max (300mA typ.)

Output Power / Receive Sensitivity:

IEEE 802.11a: 17dBm/-88dBm @ 6Mbps
13dBm/-71dBm @ 54Mbps
IEEE 802.11b: 19dBm/-95dBm @ 1Mbps
19dBm/-90dBm @ 11Mbps
IEEE 802.11g: 18dBm/-90dBm @ 6Mbps
15dBm/-73dBm @ 54Mbps

Transfer Data Rate: 802.11b:11,5.5,2,1 Mbps, auto-fallback
802.11g(Normal mode):54,48,36,24,18,12,9,6 Mbps, auto-fallback
802.11g(Turbo mode):108,96,72,48,36,24,18,12 Mbps, auto-fallback
802.11a(Normal mode):54,48,36,24,18,12,9,6 Mbps, auto-fallback
802.11a(Turbo mode):108,96,72,48,36,24,18,12 Mbps, auto-fallback

Supported OS MikroTik RouterOS, Windows XP

Operation Temp.: 0°C to 50°C

Storage Temp.: -40°C to 70°C

Humidity range: Operating 5% to 95% (non-condensing)

Wi-FiR: WECA Compliant

Media Access Protocol: CSMA/CA with ACK architecture 32-bit MAC

Connectors: Two U.fl connectors

Dimensions: 6.0cm x 4.5 cm

Weight: 20 grams

