

R5H (5GHz 802.11a High Power Wireless miniPCI Card)

- → Operates in 5 GHz wireless band
- → Supports MikroTik NStreme
- → Extended distances and higher speeds due to better output signal power
- → FCC and CE approval
- → Improved commercial grade AR5414A chipset

MikroTik introduces the R5H wireless 802.11a miniPCI card for high speed applications, with up to 320mW output power. It works on 4.920-6.100GHz frequency range and supports Turbo mode for faster transfers. The card performs best when used with the MikroTik RouterOS.

R5H 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. Nstreme-dual protocol, however is designed to provide real full-duplex communications over wireless with a pair of wireless cards – one for transmitting data and one for receiving.

Specifications

Chipset: Atheros AR5414A Standards: IEEE802.11a

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

Security: Hardware-based 64/128 bit WEP, TKIP and AES-CCM encryption,

WPA, WPA2, 802.1x

Modulation: 802.11a: OFDM

Host Interface: Mini-PCI form factor; Mini-PCI Version 1.0 type 3B

Connectors: MMCX

Wi-Fi: WECA Compliant

Certifications: FCC, EC

Powering: 3.3VDC; 1.6A max (1.1A typ.)

Frequencies:

802.11a 4.920 – 6.100 (5 MHz step)

Transfer Data Rate: 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

Receive Sensitivity:

IEEE 802.11a: -93dBm @ 6Mbps 20MHz channel

-75dBm @ 54Mbps

-99dBm @ 6Mbps/4 5MHz channel

-82dBm @ 54Mbps/4

Output Power Up to 25dB (320mW)

Supported OS: MikroTik RouterOS, Windows XP, GNU/Linux

Operation Temp.: -20°C to 70°C Storage Temp.: -65°C to 100°C

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

Dimensions: 59.6mmx50.6mmx4.95mm(heatsink, with connector 7.7mm)

Weight: 20 grams

Warning: it is always advised to keep an antenna connected during high power tx to avoid damage to the amplifier circuit.

Contact support@routerboard.com for support questions.