RouterBOARD R52n

802.11a/b/g/n dual band miniPCI card



Key Features and Benefits

- Dual band IEEE 802.11a/b/g/n standard
- Output Power of up to **23dBm**
- Support for up to 2x2 MIMO with spatial multiplexing
- Four times the throughput of 802.11a/g
- Atheros AR9220, chipset
- High Performance (up to 300Mbps physical data rates and 200Mbps of actual user throughput) with Low Power Consumption
- 2 X U.FL Antenna Connector
- Modulations:
  OFDM: BPSK, QPSK, 16 QAM, 64QAM
  DSSS: DBPSK, DQPSK, CCK
- Operating temperatures: -50ºC to 60ºC
- Power consumption MAX 2.4W

The RouterBOARD R52n miniPCI network adapter provides leading 802.11a/b/g/n performance in both 2GHz and 5GHz bands, supporting up to 300Mbps physical data rates and up to 200Mbps of actual user throughput on both the uplink and downlink. Adding Wireless N to your Wireless device, it provides higher efficiency for everyday activities such as local network file transfers, Internet browsing, and media streaming.

802.11b	RX Sensitivity	Composite TX Power
1Mbit	-95	20
11Mbit	-91	21
802.11g		
6Mbit	-95	23
54Mbit	-81	19
802.11n 2.4GHz		
MCS0 20MHz	-95	21
MCS0 40MHz	-90	21
MCS7 20MHz	-78	17
MCS7 40MHz	-75	16

802.11a	RX Sensitivity	Composite TX Power
6Mbit	-95	21
54Mbit	-80	17
802.11n 5GHz		
MCS0 20MHz	-95	21
MCS0 40MHz	-92	19
MCS7 20MHz	-77	16
MCS7 40MHz	-74	13

Data Rates

802.11b	
	11Mbps; 5.5Mbps; 2Mbps; 1Mbps
802.11a/g	
	54Mbps; 48Mbps; 36Mbps; 24Mbps; 18Mbps; 12Mbps; 9Mbps; 6Mbps
802.11n	
20MHz	1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.) 2Nss: 130Mbps @ 800GI, 144.4Mbps @ 400GI (Max.)
40MHz	1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.) 2Nss: 270Mbps @ 800GI, 300Mbps @ 400GI (Max.)

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