RouterBoard

Quick Install Guide
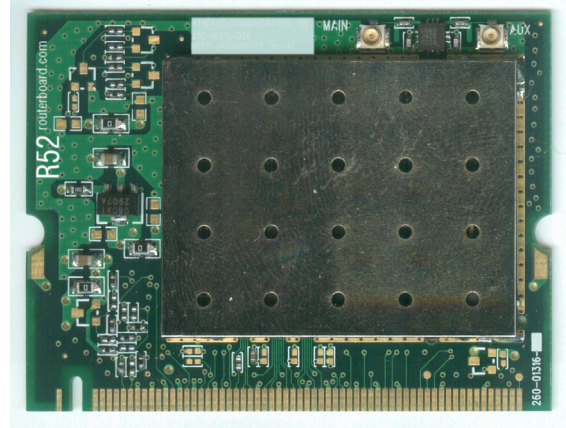
Mikrotik Wireless Mini PCI Adapter

RouterBOARD R52

Version 1.0

MikroTik
ROUTING THE WORLD
www.mikrotik.com

MikroTik
ROUTING THE WORLD
www.mikrotik.com

1. Introduction

This mini PCI adapter, RouterBOARD R52 contains a dual-mode single chip MAC/BB/Radio for IEEE 802.11a, 11g and 11b Wireless LAN. It can support high-speed data transmission of up to 54 Mbps in the 2.4GHz and 5GHz frequency bands based on 802.11b/g and 802.11a respectively.

Based on the latest industry standard Wi-Fi Certified IEEE 802.11a/g specification, the RouterBOARD R52 offers maximum channel speeds of up to 54 Mbps. It supports key security features like Wi-Fi Protected Access (WPA), WPA2, WEP and 802.1x.

You can find this adapter that is seated inside the wireless products such as the notebook computers or any other devices containing Mini PCI socket. R52 can be removed from or inserted on the PCBA of the RouterBOARD® products.

2. Package Content

RouterBOARD R52 retail package contains the following items:

- 1 x RouterBOARD R52 Wireless Mini PCI adapter

3. Application of Mini PCI

1. Align the R52 adapter to the Mini PCI socket.

2. Adjust and push down the R52 adapter gently until the metal-locking levers aside from the Mini PCI socket is fastened.

   Take note that R52 adapter can only fit in one direction due to the keyed notch. Wrong orientation will cause improper installation and may damage the Mini PCI socket.

3. Connect antenna/s on R52 adapter.

POWER

FCC NOTICE: This device has been tested and found to comply with the limits for a **Class B** digital device, pursuant to **Part 15 of the FCC Rules**. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. Connect the computer into an outlet on a circuit different from that to which the receiver is connected.

- Increase the separation between the computer and receiver.
  Consult the dealer or an experienced radio / TV technician for help.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

FCC Compliance Statement: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)   This device may not cause harmful interference, and

(2)   This device must accept any interference received, including interference that may cause undesired operation.

Products that contain a radio transmitter are labeled with FCC ID and may also carry the FCC logo.

Caution: Exposure to Radio Frequency Radiation.

To comply with the FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied:

a.   For configurations using the integral antenna, the separation distance between the antenna(s) and any person's body (including hands, wrists, feet and ankles) must be at least 2.5cm (1 inch).

b.   For configurations using an approved external antenna, the separation distance between the antenna and any person's body (including hands, wrists, feet and ankles) must be at least 20cm (8 inch).

The transmitter shall not be collocated with other transmitters or antennas.

ICES 003 Statement

This Class B digital apparatus complies with Canadian ICES-003.

DECLARATION OF CONFORMITY: *Mikrotik SIA declares that the product:*

Product Name: Mikrotik RouterBoard R52 Wireless Mini PCI Adapter

Model No.: R52 *conforms to the following Product Standards:*

<u>**Radiated Emission Standards:**</u> ETSI EN 300 328-2: July 2000; FCC: 47 CFR Part 15, Subpart B, ANSI C63.4-1992; 47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-1992.

<u>**Conducted Emission Standards:**</u> ETS 300 826: Nov. 1997.

<u>**Immunity Standards:**</u> IEC 801-2; IEC 801-3; IEC 801-4

<u>**Low Voltage Directive:**</u> EN 60 950:1992+A1: 1993+A2: 1993+A3; 1995+A4; 1996+A11: 1997

Therefore, this product is in conformity with the following regional standards: FCC Class B – following the provisions of FCC Part 15 directive; *CE Mark* – following the provisions of the EC directive.

Manufacturer's Name: Mikrotik, SIA

Address: 46 Pernavas street ,
Riga, LV-1009, Latvia