MikroTik RB941-2nD DATASHEET

Overview

The MikroTik RB941-2nD is a compact and affordable wireless router ideal for home and small office use. It features a powerful 650 MHz single-core CPU, 32 MB RAM, and runs RouterOS with a Level 4 license, offering enterprise-grade networking features in a cost-effective package. This device supports 2.4 GHz dual-chain Wi-Fi with 802.11b/g/n standards and provides four 10/100 Mbps Ethernet ports for wired connectivity.

QUICK SPEC
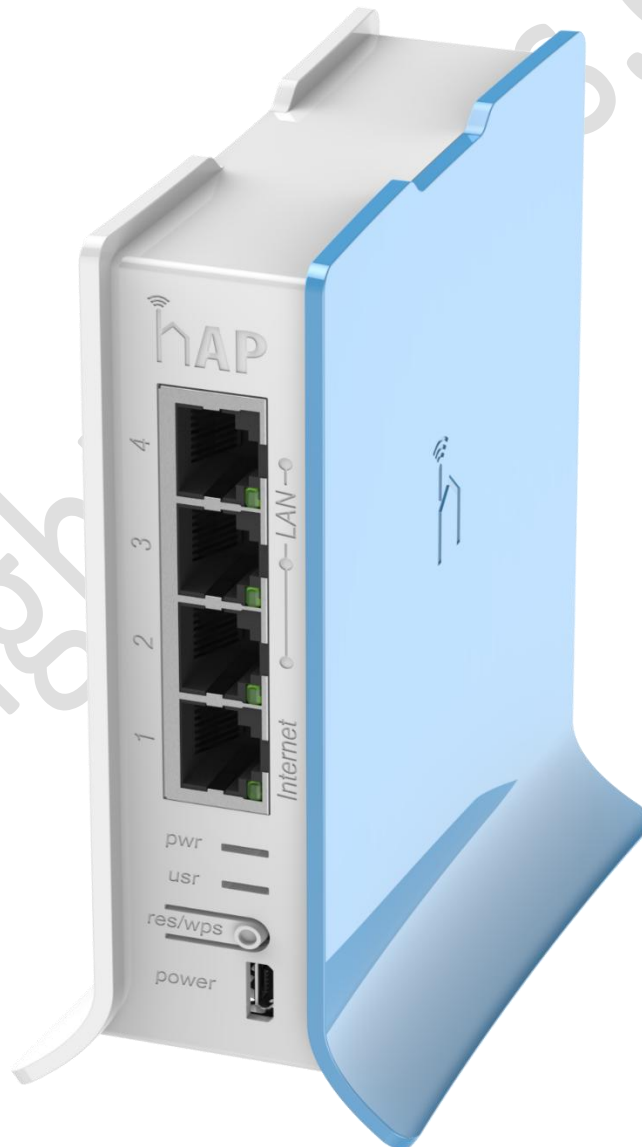
FIGURE 1: APPEARANCE OF RB941-2nD

TABLE 1: Quick Specs

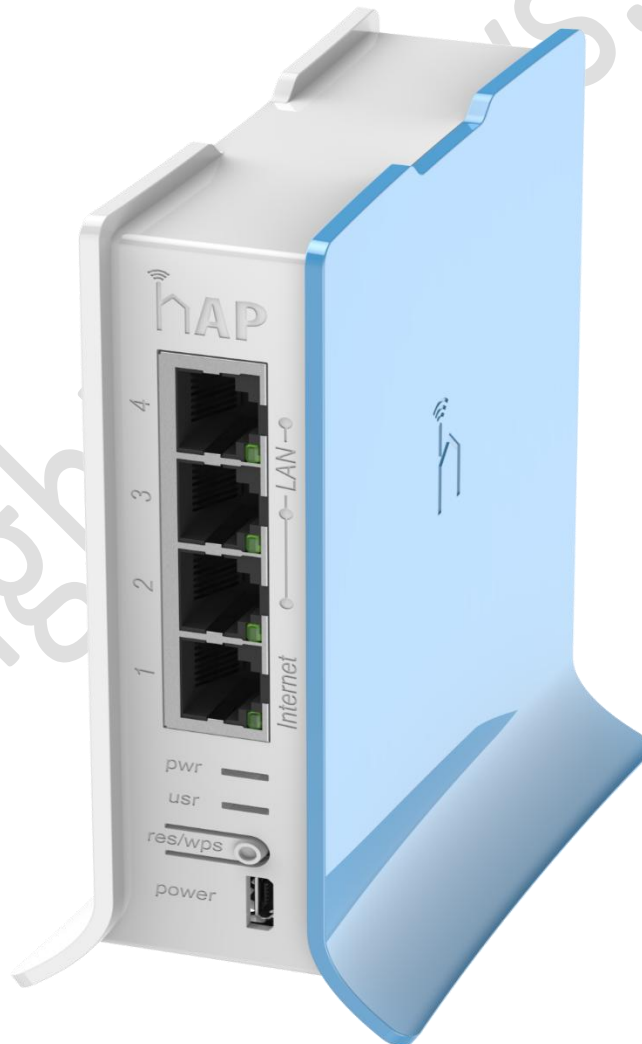| SKU	RB941-2nD
RouterOS License	4
Switch chip model	QCA9533-BL3A
Ports	4 x 10/100 Mbps Fast Ethernet ports
Dimensions (W x H x D)	114 x 114 x 28 mm

Product Details

FIGURE 2: FRONT PANEL OF RB941-2nD

FIGURE 3: BACK PANEL OF RB941-2nD

RB941-2nD Switch provides these features:

1.CPU (650 MHz Single-core QCA9533-BL3A

The processor runs the router's operating system and handles all networking tasks. At 650 MHz, it is sufficient for basic routing, firewall, and wireless processing needs typically found in home or small office environments.

2.RAM (32 MB)

Memory stores active data and configurations while the router is running. 32 MB supports RouterOS efficiently for typical small network operations without heavy multitasking.

3.Ethernet Ports (4 x 10/100 Mbps)

These ports provide wired network connectivity supporting Fast Ethernet speeds, suitable for connecting computers, printers, or switches in a small network.

4.Wireless (2.4 GHz Dual-chain 802.11b/g/n)

It supports the widely-used 2.4 GHz band with dual antennas for better reception and transmission, delivering up to 300 Mbps wireless speed under 802.11n standard—good for common internet and local tasks.

5.Antenna Gain (1.5 dBi built-in)

It indicates modest signal strength from internal antennas, optimized for short to medium-range coverage typical in apartments or small offices.

6.Power Input (5V MicroUSB)

It uses a common, easily sourced power cable type, enhancing convenience and compatibility with many adapters.

7.RouterOS License Level 4

It grants advanced router features such as complex firewall rules, VPN tunnels, traffic management, and unlimited software updates, important for network customization and secure, scalable operation.

7.Power Consumption (~3W max)

It has very low electricity use, beneficial for energy-conscious users and continuous operation scenarios.

8.Dimensions and Cooling

The small size and passive cooling design mean silent operation and easy placement in tight spaces without additional fans.

SPECIFICATION

RB941-2nD SPECIFICATION	
Model	RB941-2nD
Architecture	SMIPS
CPU	QCA9533
CPU core count	1
CPU nominal frequency	650 MHz
Switch chip model	QCA9533-BL3A
RouterOS license	4
Operating System	RouterOS

Size of RAM	32 MB
Storage size	16 MB
Storage type	FLASH
MTBF	Approximately 100'000 hours at 25C
Tested ambient temperature	-20°C to 60°C
Wireless capabilities • Wireless 2.4 GHz Max data rate • Wireless 2.4 GHz no. of chains • Wireless 2.4 GHz standards • Antenna gain dBi for 2.4 GHz • Wireless 2.4 GHz chip model • Wireless 2.4 GHz generation	• 300 Mbit/s • 2 • 802.11b/g/n • 1.5 • QCA9533 • Wi-Fi 4
Wireless specifications 2.4 GHz • 1MBit/s • 11MBit/s • 6MBit/s • 54MBit/s • MCS0 • MCS7	Transmit (dBm) Receive Sensitivity • 22 -96 • 22 -89 • 20 -93 • 18 -74 • 20 -93 • 16 -71
10/100 Ethernet ports	4
MicroUSB input Voltage	5 V
Number of DC inputs	1 (MicroUSB)
Max power consumption	3.5 W
Cooling type	Passive
Certification	FCC, IC

Why Insight Infosys.com

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