RB52Ui-5ac2Nd-TC DATASHEET

Overview

The MikroTik RB952Ui-5ac2nD-TC (hAP ac lite TC) is a compact dual-band access point featuring a 650 MHz CPU, 64 MB RAM, and 16 MB flash storage, running RouterOS level 4. It provides simultaneous Wi-Fi coverage on 2.4 GHz (dual-chain 802.11b/g/n up to 300 Mbps) and 5 GHz (single-chain 802.11a/n/ac up to 433 Mbps) bands for combined AC750 Wi-Fi speed. The device includes five 10/100 Mbps Ethernet ports with PoE output on port 5 to power other devices, a USB port for 3G/4G modems, and supports passive PoE input. Its durable design allows desktop or vertical tower placement with included wall mounting. This makes it ideal for small office or home office environments seeking reliable, dual-band wireless connectivity with flexible power options, all in a compact 34 x 119 x 98 mm enclosure.

QUICK SPEC

FIGURE 1: APPEARANCE OF RB52Ui-5ac2Nd-TC

TABLE 1: Quick Specs

SKU	RB52Ui-5ac2Nd-TC
Backplane speed	100 Mbps per Ethernet port
Throughput	Upto 493 Mbps bridging throughput
Ports	5 x 10/100 Mbps Ethernet ports
Dimensions (W x H x D)	34 x 119 x 98mm

Product Details

FIGURE 2: FRONT PANEL OF RB52Ui-5ac2Nd-TC

FIGURE 3: BACK PANEL OF RB52Ui-5ac2Nd-TC

RB52Ui-5ac2Nd-TC Switch provides these features:

1.Dual-Band Wireless

The MikroTik RB952Ui-5ac2nD-TC supports simultaneous dual-band Wi-Fi operation on both 2.4 GHz (dual-chain 802.11b/g/n up to 300 Mbps) and 5 GHz (single-chain 802.11a/n/ac up to 433 Mbps) bands, delivering combined AC750 class wireless speeds for diverse devices and improved network performance.

2.Ethernet Ports with PoE Output

It includes five 10/100 Mbps Ethernet ports, with the fifth port capable of providing passive Power over Ethernet (PoE) output to power other compatible devices like access points or IP cameras, simplifying deployments by reducing the need for separate power supplies.

3.Compact and Flexible Design

The unit features a new universal case allowing either horizontal or vertical placement, accompanied by a wall mounting kit for versatile installation. Its compact dimensions of 34 x 119 x 98 mm make it well suited for space-constrained environments like small offices or home networks.

4.Efficient CPU and Memory

It is powered by a 650 MHz QCA9531 single-core CPU and 64 MB RAM, it delivers reliable wireless and routing performance while running RouterOS Level 4, equipped with firewall, VPN, bandwidth management, and other advanced networking features.

5.USB Port for 3G/4G Support

The RB952Ui-5ac2nD-TC includes one USB Type-A port, enabling connection of external 3G/4G modems for additional or backup internet access options, enhancing network resilience.

6.Power Input Flexibility

It supports two power input methods: a DC jack (10-28 V) and passive PoE input, providing flexible powering options tailored to various deployment scenarios.

7.High Throughput and Fast Path Bridging

The router achieves fast path bridging throughput of up to approximately 493 Mbps on 1518-byte packets, ensuring efficient handling of wired network traffic alongside wireless functionalities.

8.Operating Range and Compliance

It is designed for robust operation in temperatures ranging from -30°C to +70°C, it is certified for international standards including CE, FCC, IC, EAC, and ROHS, ensuring reliable performance and regulatory compliance globally.

SPECIFICATION

RB52Ui-5ac2Nd-TC SPECIFICATION	
Model	RB952Ui-5ac2nD-TC
Architecture	MIPSBE
CPU	QCA9531
CPU core count	1
CPU nominal frequency	650 MHz
Switch chip model	QCA9531
Dimensions	34 x 119 x 98mm
RouterOS license	4
Operating System	RouterOS
Size of RAM	64MB
Storage size	16MB
Storage type	FLASH
MTBF	Approximately 100'000 hours at 25C
Tested ambient temperature	-30°C to 70°C
Wireless 2.4 GHz Max data rate	300 Mbit/s
Wireless 2.4 GHz number of chains	2
Wireless 2.4 GHz standards	802.11b/g/n
Antenna gain dBi for 2.4 GHz	1.5
Wireless 2.4 GHz chip model	QCA9531
Wireless 2.4 GHz generation	Wi-Fi 4
Wireless 5 GHz Max data rate	433 Mbit/s

Wireless 5 GHz number of chains	1
Wireless 5 GHz standards	802.11a/n/ac
Antenna gain dBi for 5 GHz	2
Wireless 5 GHz chip model	QCA9887
Wireless 5 GHz generation	Wi-Fi 5
WiFi speed	AC750
Number of USB ports	1
USB Power Reset	Yes
USB slot type	USB type A
Max USB current (A)	1
Number of DC inputs	2 (DC jack, PoE-IN)
DC jack input Voltage	10-28 V
Max power consumption	20 W
Max power consumption (no att)	8 W
PoE in	Passive PoE
Cooling type	Passive
PoE in input Voltage	10-28 V
PoE-out ports	Ether5
PoE out	Passive PoE
Low voltage PoE-Out current limit	500 mA
Max total out (A)	500 mA

Wireless specifications 2.4 GHz	Transmit (dBm)	Receive Sensitivity
• 1MBit/s	• 22	-96
• 11MBit/s	• 22	-89
• 6MBit/s	• 20	-93
• 54MBit/s	• 18	-74
• MCS0	• 20	-93
• MCS7	• 16	-71

Wireless specifications 5 GHz	Transmit (dBm)	Receive Sensitivity
• 6MBit/s	• 23	-93
• 54MBit/s	• 20	-75
• MCS0	• 23	-93
• MCS7	• 19	-71
• MCS9	• 16	-63

Included parts	• 24V 1.2A power adapter • K-47 wall mount set
Certification	CE, FCC, IC, EAC, ROHS

Why Insight Infosys.com

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