RB953GS-5HnT-RP

RouterBOARD 953GS-5HnT-RP is our first product with 5GHz 3x3 MIMO Triple Chain support. It has a powerful (up to 1600mW!) Atheros QCA9558 CPU 802.11a/n wireless support with three RPSMA connectors.

RB953GS-5HnT is equipped with a new Scorpion 720Mhz CPU, 128MB RAM and three Gigabit Ethernet ports, to take advantage of high-speed 3x3 MIMO wireless. Moreover, it comes with two SFP cages to accommodate FTTH and fiber ring requirements.

Handy additions are two miniPCI-express slots and two SIM slots, for multiple 3G/4G connections or wireless expansion.

Unit comes with preinstalled RouterOS Level5 license.

Product specifications

	Details
Product code	RB953GS-5HnT-RP
CPU nominal frequency	720 MHz
CPU core count	1
Size of RAM	128 MB
10/100/1000 Ethernet ports	3
MiniPCI-e slots	2
Wireless chip model	QCA9558
Wireless standards	802.11a/n
Number of USB ports	1
Power Jack	1
PoE in	Yes
Supported input voltage	8 V - 30 V
Voltage Monitor	Yes
PCB temperature monitor	Yes
Dimensions	183x105x24mm
Operating System	RouterOS
Tested ambient temperature	-40°C .. +70°C tested
License level	5
CPU	QCA9558
Max Power consumption	25W
SFP ports	2
USB slot type	USB type A
Supported Voltage	PoE in: 8-30V, Power jack: 8-30V DC
Number of chains	3
Serial port	RS232
Storage type	NAND
Storage size	128 MB
Suggested price	$169.00

Wireless specifications

	5 GHz		
	Transmit power (dBm)	Receive Sensitivity	Transmit power (mW)
6MBit/s	32	96	1585
54MBit/s	30	81	1000
MCS0	32	96	1585
MCS7	29	77	794

wireless parameters may be limited in software, depending on your local regulatory limitations

Ethernet test results

RB953GS-5HnT-RP		QCA9558 1G all port test					
Mode	Configuration	1518 byte		512 byte		64 byte	
		kpps	Mbps	kpps	Mbps	kpps	Mbps
Bridging	none (fast path)	161.9	1,966.1	345.5	1,415.2	435.6	223.0
Bridging	25 bridge filter rules	125.5	1,524.1	126.5	518.1	128.8	65.9
Routing	none (fast path)	161.9	1,966.1	334.2	1,368.9	397.9	203.7
Routing	25 simple queues	161.9	1,966.1	183.9	753.3	203.3	104.1
Routing	25 ip filter rules	78.1	948.4	77.8	318.7	77.5	39.7

1. All tests are done with Xena Networks specialized test equipment (XenaBay),and done according to RFC2544 (Xena2544)
2. Max throughput is determined with 30+ second attempts with 0,1% packet loss tolerance in 64, 512, 1518 byte packet sizes
3. Values in Italic indicate that max throughput was reached without maxing out CPU, but because board interface configuration was maxed out
4. Test results show device maximum performance, and are reached using mentioned hardware and software configuration, different configurations most likely will result in lower results