



RB450G

The RB450G is a five port Gigabit ethernet router. Comparing to the RB450, the RB450G not only adds Gigabit speed capability, but also 256Mb of RAM, a faster CPU and a microSD card slot for file storage.

The device is powered by a fast AR7161 680MHz Atheros CPU, and also includes a temperature sensor and voltage monitor.

RB450G includes RouterOS - the operating system, which will turn this powerful system into a highly sophisticated router, firewall or bandwidth manager.

Product specifications

Details	
Product code	RB450G
CPU nominal frequency	680 MHz
CPU core count	1
Architecture	MIPS-BE
Size of RAM	256 MB
10/100/1000 Ethernet ports	5
Memory Cards	1
Memory card type	microSD
Power Jack	2
PoE in	Yes
Supported input voltage	8 V - 28 V
Voltage Monitor	Yes
PCB temperature monitor	Yes
Operating System	RouterOS
Tested ambient temperature	-20°C .. +70°C tested
License level	5
CPU	AR7161
Serial port	RS232
Storage type	NAND
Storage size	512 MB
Suggested price	\$99.00

Ethernet test results

RB450G	AR7161 1G all port test
Mode	Configuration
	1518 byte 512 byte 64 byte
	kpps Mbps kpps Mbps kpps Mbps
Bridging none	58.0 704.4 171.9 704.1 187.3 95.9
Bridging 25 bridge filter rules	58.5 710.4 84.5 346.1 86.4 44.2
Routing none	59.7 725.0 136.1 557.5 147.0 75.3
Routing 25 simple queues	55.2 670.3 117.7 482.1 137.0 70.1
Routing 25 ip filter rules	54.7 664.3 59.4 243.3 59.2 30.3

- 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