RB3011UiAS-RM

The RB3011 is a new multi port device, our first to be running an ARM architecture CPU for higher performance than ever before. The RB3011 has ten Gigabit ports divided in two switch groups, an SFP cage and for the first time a Superspeed full size USB 3.0 port, for adding storage or an external 3G/4G modem.

Unit comes with 1U rackmount enclosure, a touchscreen LCD panel, a serial console port and PoE output functionality on the last Ethernet port.



Specifications

Product code	RB3011UiAS-RM
CPU nominal frequency	1.4 GHz
CPU core count	2
Size of RAM	1 GB
10/100/1000 Ethernet ports	10
Switch chip model	QCA8337-AL3C-R
Power Jack	1
PoE in	Yes (passive only)
PoE out	Yes (port 10)
Supported input voltage	10 V - 30 V
Voltage Monitor	Yes
PCB temperature monitor	Yes
Dimensions	443x92x44mm
License level	5
Operating System	RouterOS
CPU	IPQ-8064
Max Power consumption	10 W

Specifications

SFP port	1
USB slot type	USB 3.0 type A
Number of USB ports	1
Serial port	RJ45
Suggested price	$179

Included



24V 1.2A Power adapter



K-19 fastening set



Rack ears

Performance test results

RB3011UiAS		All port test		RouterOS v6.30rc23			
Mode	Configuration	1518 byte		512 byte		64 byte	
		Mbps	kpps	Mbps	kpps	Mbps	kpps
Bridging	none (fast path)	3,946.8	325.0	3,849.4	939.8	783.5	1,530.2
Bridging	25 bridge filter rules	3,946.8	325.0	1,573.7	384.2	178.5	348.6
Routing	none (fast path)	3,946.8	325.0	3,849.4	939.8	736.1	1,437.6
Routing	25 simple queues	3,946.8	325.0	1,718.7	419.6	214.9	419.7
Routing	25 ip filter rules	2,453.1	202.0	836.0	204.1	96.5	188.4

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