

## RouterBOARD

All tests done with Agilent N2X two port specialized test system, RouterOS v3. Date: April 2009

Calculation from pps to Mbps:  $((IP\ packet\ size + 18) * 8 * pps) / 1000000$ . Comma is used as a decimal separator here

Results in *italic font* mean that the test achieved Maximum possible (Interface speed limitation eg. 100Mbps)

«Firewall» means «use ip-firewall» setting in Bridging mode. Doesn't apply to Routing mode.

RB400G @680MHz								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	60.35	92000	385.84	91000	935.09	77000
N/A	On	Routing	48.54	74000	299.77	70700	777.22	64000
Off	Off	Rstp-bridge	84.3	128500	510.92	120500	1010.38	83200
On	Off	Rstp-bridge	55.76	85000	337.08	79500	831.86	68500
On	On	Rstp-bridge	40.02	61000	258.64	61000	673.99	55500

RB400AH @680MHz								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	60.35	92000	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
N/A	On	Routing	48.54	74000	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
Off	Off	Rstp-bridge	84.3	128500	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
On	Off	Rstp-bridge	55.76	85000	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
On	On	Rstp-bridge	40.02	61000	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>

RB400 @300MHz								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	33.72	51400	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
N/A	On	Routing	25.72	39200	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
Off	Off	Rstp-bridge	52.09	79400	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
On	Off	Rstp-bridge	32.08	48900	<i>192.92</i>	<i>45500</i>	<i>197.34</i>	<i>16250</i>
On	On	Rstp-bridge	22.83	34800	143.74	33900	197.34	16250

RB600								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	43.62	66500	271.36	64000	745.64	61400
N/A	On	Routing	34.11	52000	216.24	51000	592.63	48800
Off	Off	Rstp-bridge	66.06	100700	406.62	95900	1020.1	84000
On	Off	Rstp-bridge	40.61	61900	256.52	60500	697.07	57400
On	On	Rstp-bridge	32.6	49700	207.76	49000	536.76	44200

RB1000								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	171.87	262000	1047.28	247000	2416.66	199000
N/A	On	Routing	125.95	192000	792.88	187000	1967.33	162000
Off	Off	Rstp-bridge	262.4	400000	1553.96	366500	3157.44	260000
On	Off	Rstp-bridge	156.13	238000	945.52	223000	2222.35	183000
On	On	Rstp-bridge	118.74	181000	708.08	167000	1894.46	156000

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RB333								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	31.16	47500	192.92	45500	197.34	16250
N/A	On	Routing	14.76	22500	93.28	22000	197.34	16250
Off	Off	Rstp-bridge	53.6	81700	192.92	45500	197.34	16250
On	Off	Rstp-bridge	25.26	38500	156.37	36880	197.34	16250
On	On	Rstp-bridge	11.22	17100	68.69	16200	197.34	16250

RB532								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	13.32	20300	81.83	19300	182.77	15050
N/A	On	Routing	7.68	11700	48.34	11400	128.12	10550
Off	Off	Rstp-bridge	30.5	46500	178.5	42100	182.16	15000
On	Off	Rstp-bridge	11.28	17200	69.54	16400	182.16	15000
On	On	Rstp-bridge	7.35	11200	46.22	10900	119.01	9800

RB230								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	13.78	21000	64.02	15100	115.37	9500
N/A	On	Routing	9.45	14400	45.79	10800	88.65	7300
Off	Off	Rstp-bridge	19.68	30000	75.9	17900	129.94	10700
On	Off	Rstp-bridge	13.78	21000	62.75	14800	111.72	9200
On	On	Rstp-bridge	9.84	15000	46.64	11000	88.65	7300

RB133								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	6.34	9660	38.54	9089	97.49	8028
N/A	On	Routing	3.67	5588	22.21	5239	56.96	4690
Off	Off	Rstp-bridge	9.19	14010	54.29	12804	114.32	9414
On	Off	Rstp-bridge	5.19	7913	30.73	7248	80	6588
On	On	Rstp-bridge	3.24	4933	19.7	4647	51.41	4233