

RouterBOARD Test Results

All tests done with Agilent N2X two port specialized test system, RouterOS v3. Date: July 2008
 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.

RB1000 (Tested on 4x Gigabit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte 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

RB600 (Tested on 2x Gigabit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte 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

RB433AH at 600MHz (Tested on 2x 100Mbit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte packets Mbps/pps		1500 byte packets Mbps/pps	
N/A	Off	Routing	62,65	95500	<i>191,65</i>	<i>45200</i>	<i>197,34</i>	<i>16250</i>
N/A	On	Routing	49,79	75900	<i>191,65</i>	<i>45201</i>	<i>197,34</i>	<i>16250</i>
Off	Off	Rstp-bridge	90,07	137300	<i>191,66</i>	<i>45202</i>	<i>197,34</i>	<i>16250</i>
On	Off	Rstp-bridge	57,14	87100	<i>191,66</i>	<i>45203</i>	<i>197,34</i>	<i>16250</i>
On	On	Rstp-bridge	40,41	61600	<i>191,66</i>	<i>45204</i>	<i>197,34</i>	<i>16250</i>

RB411, RB450, RB433 (Tested on 2x 100Mbit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte 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

RB333 (Tested on 2x 100Mbit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte packets Mbps/pps		1500 byte packets Mbps/pps	
N/A	Off	Routing	31,16	47500	<i>192,92</i>	<i>45500</i>	<i>197,34</i>	<i>16250</i>
N/A	On	Routing	14,76	22500	93,28	22000	197,34	16250
Off	Off	Rstp-bridge	53,6	81700	<i>192,92</i>	<i>45500</i>	<i>197,34</i>	<i>16250</i>
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 (Tested on 2x 100Mbit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte 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 (Tested on 2x 100Mbit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte packets Mbps/pps		1500 byte packets Mbps/pps	
N/A	Off	Routing	13,84	21100	64,02	15100	115,37	9500
N/A	On	Routing	9,45	14400	45,79	10800	88,65	7300
Off	Off	Bridging	19,68	30000	75,9	17900	129,94	10700
On	Off	Bridging	13,78	21000	62,75	14800	111,72	9200
On	On	Bridging	9,84	15000	46,64	11000	88,65	7300

RB133 (Tested on 2x 100Mbit interfaces)

Firewall	Conntrack	Mode	64 byte packets Mbps/pps		512 byte 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	Bridging	9,19	14010	54,29	12804	114,32	9414
On	Off	Bridging	5,19	7913	32	7548	80	6588
On	On	Bridging	3,24	4933	19,7	4647	51,41	4233