

# RouterBOARD

All tests done with Agilent N2X two port specialized test system, RouterOS v3/v4

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	<i>197,34</i>	<i>16250</i>

RB700 @400MHz								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	41,98	64000	192,92	<i>45500</i>	197,34	<i>16250</i>
N/A	On	Routing	31,03	47300	192,92	<i>45500</i>	197,34	<i>16250</i>
Off	Off	Rstp-bridge	59,7	91000	192,92	<i>45500</i>	197,34	<i>16250</i>
On	Off	Rstp-bridge	37	56400	192,92	<i>45500</i>	197,34	<i>16250</i>
On	On	Rstp-bridge	27,29	41600	167,48	39500	197,34	<i>16250</i>

RB750G @680MHz								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	46,58	71000	279,84	66000	528,26	43500
N/A	On	Routing	37,79	57600	228,96	54000	528,26	43500
Off	Off	Rstp-bridge	60,02	91500	357,01	84200	573,2	47200
On	Off	Rstp-bridge	42,97	65500	273,06	64400	564,7	46500
On	On	Rstp-bridge	32,93	50200	199,28	47000	505,19	41600

RB800/RB1100								
Firewall	Conntrack	Mode	64byte packets. Mbps / pps		512byte packets. Mbps / pps		1500 byte packets. Mbps / pps	
N/A	Off	Routing	110,86	169000	708,08	167000	1821,6	150000
N/A	On	Routing	82	125000	510,92	120500	1412,35	116300
Off	Off	Rstp-bridge	181,06	276000	1096,04	258500	1974,01	162550
On	Off	Rstp-bridge	100,37	153000	628,79	148300	1615,15	133000
On	On	Rstp-bridge	79,38	121000	500,32	118000	1335,84	110000

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	Contrack	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	Contrack	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	Contrack	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	Contrack	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

RB600								
Firewall	Contrack	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