



Appliance Comparison Chart

Appliance Comparison Chart



Security Gateway Appliances

	3100	3200	5100	5200	5400	5600	5800	5900	
	Branch Office		Small Enterprise			Mid-Size Enterprise			
Enterprise Testing Conditions									
Threat Prevention (Gbps) ¹	340 Mbps	385 Mbps	700 Mbps	840 Mbps	980 Mbps	1.85	2.75	3.95	
NGFW Throughput (Gbps) ²	850 Mbps	1.15	2.1	2.52	3.4	5.1	6	7.25	
IPS Throughput (Gbps)	1.1	1.44	2.45	3	3.9	5.5	6.5	7.6	
Firewall (Gbps)	3.15 ³	4 ³	6.45	7.8	11.4 ³	20.4 ³	25	29.4	
Ideal Testing Conditions									
Firewall Throughput (Gbps)	4	4	14.5	16	20	23	35	52	
VPN Throughput (Gbps)	1.7	2.25	1.6	1.88	2.16	6.5	10	10.2	
Connections Per Second (K)	40 ³	48 ³	110 ³	125 ³	150 ³	185 ³	185 ³	210	
Concurrent Sessions (M) ³	3.2	3.2	3.2/6.4	3.2/6.4	3.2/12.8	3.2/12.8	3.2/12.8	3.2/12.8	
Network									
10/100/1000Base-T (Base/Max)	6/6	6/6	6/14	6/14	10/18	10/18	10/26	10/26	
1000Base-F SFP (Base/Max)	NA	NA	0/4	0/4	0/4	0/4	0/8	0/8	
10GBBase-F SFP+ (Base/Max)	NA	NA	NA	NA	NA	0/4	0/8	0/8	
40GB QSFP (Base/Max)	NA	NA	NA	NA	NA	NA	0/4	0/4	
Expansion Slot	NA	NA	1	1	1	1	2	2	
Fail-Over NIC Option	NA	NA	Yes	Yes	Yes	Yes	Yes	Yes	
Additional Features									
CPUs/physical cores/virtual cores (total)	1/4/4	1/4/4	1/2/2	1/2/2	1/2/2	1/4/4	1/4/8	1/8/16	
Storage	1x 320GB HDD or 240GB SSD			1x 1TB HDD or 240GB SSD				1 + 1 HDD or SSD	
Memory Options (GB)	8	8	8, 16	8, 16	8, 16, 32	8, 16, 32	8, 16, 32	8,16, 32	
LOM Card	NA	NA	Optional	Optional	Optional	Optional	Included	Included	
Virtual Systems									
Max (base/HPP/max memory)	10	10	10/20/20	10/20/20	10/20/20	10/20/20	10/20/20	10/20/20	
Physical									
Enclosure	Desktop	Desktop	1U	1U	1U	1U	1U	1U	
Weight	1.3kg (2.9 lbs)	1.3kg (2.9 lbs)	6.22kg (13.7 lbs)	6.22kg (13.7 lbs)	6.37kg (14 lbs)	7.95kg (17.53 lbs)	8.37kg (18.45 lbs)	10kg (22.05 lbs)	
Power									
Hot-Swappable Power Supplies	NA	NA	NA	NA	NA	Optional	Optional	Optional	
DC Power	NA	NA	Optional	Optional	Optional	Optional	Optional	Optional	
Power Input	110-240VAC, 47-63 Hz								
Single Power Supply Rating	40W	40W	250W	250W	250W	275W	275W	500W	
Power Consumption (Max)	29.5W	29.5W	62.9W	62.9W	76.5W	87.2W	110W	165W	

¹ Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast with R80.20.

² Includes Firewall, Application Control, IPS with R80.20.

³ Performance measured with default/maximum memory with R80.10.

Appliance Comparison Chart



Security Gateway Appliances continued

	6500	6800	15400	15600	23500	23800	23900
	Enterprise		Large Enterprise		Data Center Grade		
Enterprise Testing Conditions							
Threat Prevention (Gbps) ¹	3.4	8.9	4.05	7.4	9.7	10.5	14.6
NGFW Throughput (Gbps) ²	6.8	15	7.7	10.5	12.6	20.4	24
IPS Throughput (Gbps)	7.8	20	8	11	13.3	21.5	26
Firewall (Gbps)	20.6	42	33.5	41.2	52	65	77.9
Ideal Testing Conditions							
Firewall Throughput (Gbps)	22.8	50	58	76	116	128	128
VPN Throughput (Gbps)	4.3	10.4	10.8	15.8	26	26	26
Connections Per Second (K)	140	300	210	300	310	319	397
Concurrent Sessions (M) ³	2/8	3.9/16	3.2/25.6	6.4/25.6	6.4/51.2	12.8/51.2	18.3/51.2
Network							
10/100/1000Base-T (Base/Max)	10/18	10/26	10/26	10/26	10/42	10/42	10/42
1000Base-F SFP (Base/Max)	0/4	0/8	0/12	0/12	0/20	0/20	0/20
10GBase-F SFP+ (Base/Max)	0/4	0/8	2/12	2/12	2/20	2/20	2/20
40G QSFP+ (Base/Max)	—	—	0/6	0/6	0/6	0/6	0/6
100/25G QSFP28 (Base/Max)	—	—	0/6	0/6	0/6	0/6	0/6
Expansion Slot	1	2	3	3	5	5	5
Fail-Open/Bypass NIC Option	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Features							
CPUs/physical cores/virtual cores (total)	1/4/8	1/10/20	1/8/16	2/16/32	2/20/40	2/24/48	2/36/72
Storage	1x 1TB HDD or 240GB SSD	2x 1TB HDD or 480GB SSD RAID1	2x 1TB HDD or 480GB SSD RAID1	2x 1TB HDD or 480GB SSD RAID1	2x 1TB HDD or 480GB SSD RAID1	2x 1TB HDD or 480 GB SSD RAID1	2x 1TB HDD or 480 GB SSD RAID1
Memory Options (GB)	8, 16, 32	16, 32, 64	8, 24, 64	16, 32, 64	16, 64, 128	32, 64, 128	48, 64, 128
LOM Card	Optional	Included	Included	Included	Included	Included	Included
LCD Display	—	—	Graphic LCD	Graphic LCD	Graphic LCD	Graphic LCD	Graphic LCD
Virtual Systems							
Max (base/HPP/max memory)	10/20/20	20/20/30	10/40/40	60/80/125	60/125/125	125/250/250	125/250/250
Physical							
Enclosure	1U	2U	2U	2U	2U	2U	2U
Weight	7.95kg (17.53 lbs)	10kg (22.05 lbs)	14.3kg (31.5 lbs)	14.3kg (31.5 lbs)	15.8kg (34.8 lbs)	15.8 kg (34.8 lbs.)	15.8 kg (34.8 lbs.)
Power							
Hot-Swappable Power Supplies	AC or DC	AC or DC	AC or DC	AC or DC	AC or DC	AC or DC	AC or DC
Power Input	110-240VAC (47-63Hz)	110-240VAC (47-63Hz)	110-240VAC (47-63Hz); -40.5VDC/24A -48VDC/19.2A, -60VDC/16.0A				
Single Power Supply Rating	275W	500W	AC(550W), DC(800W)	AC(550W), DC(800W)	800W	800W	800W
Power Consumption (Max)	87.2 W	170W	263W	297W	383W	399W	399W

¹ Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast with R80.20.

² Includes Firewall, Application Control and IPS with R80.20.

³ Performance measured with default/maximum memory with R80.10.

Appliance Comparison Chart



Security Systems

	44000	64000
Data Center, Telco, Carrier Grade		
Enterprise Testing Conditions		
Threat Prevention (Gbps)	Up to 90	Up to 180
NGFW (Gbps)	Up to 204	Up to 408
Firewall (Gbps)	Up to 335	Up to 800
Ideal Testing Conditions		
Firewall Throughput (Gbps)	Up to 395	Up to 880
Connections Per Second (M)	Up to 2.46	Up to 4.92
Concurrent Sessions (M)	Up to 55.2	Up to 110.4
Network		
10GBase-F SFP+ (Max Ports)	64	64
40G QSFP+ (Max Ports)	12	12
100G QSFP28 (Max Ports)	4	4
Expansion Slot	7	14
Virtual Systems		
Max VS Supported	250	250
Physical		
Enclosure	6U	16U
Weight	Max: 40 kg (88.2 lbs.)	Max: 99.8 kg (220.1 lbs.)
Power		
Hot-Swappable Power Supplies	4 AC	4 AC (up to 9 SGMs), 6 AC (10-12 SGMs) or 2 DC
Power Input	See data sheet	
Single Power Supply Rating	1200W@110V; 1584W@220V	AC: (2496W @ 208V/230V), DC: (-48V to -60V 125A)
Power Consumption (Max)	2500W	5600W

Performance measured with R80SP20

Appliance Comparison Chart



Small Branch Office Security Appliances

	1430	1450	1470	1490
Ideal Testing Conditions				
Firewall Throughput (Gbps)	2	2.5	3.2	4
IPS Throughput (Mbps)	325	575	700	800
NGFW Throughput (Mbps) ¹	300	490	625	800
Threat Prevention (Mbps) ²	225	400	500	550
VPN Throughput (Mbps)	275	500	500	1000
Connections Per Second (K)	20	27	30	40
Concurrent Sessions (K)	500	500	500	500
SPU Testing Conditions				
Firewall (Mbps)	900	1100	1600	1800
IPS Throughput (Mbps)	175	225	285	375
NGFW Throughput (Mbps) ¹	100	210	240	310
Threat Prevention (Mbps) ²	90	150	175	220
Network				
Wireless Option	802.11 b/g/n/ac, single band 2.4 or 5GHz		802.11 b/g/n/ac, dual band 2.4 and 5GHz	
DSL	Optional		-	
Power over Ethernet (PoE)	-		Optional	
10/100/1000Base-T Ports	8		18	
1000Base-F Ports	0		1	
Additional Features				
Security Architecture	Embedded GAiA		Embedded GAiA	
3G, 4G Modem Support	Yes		Yes	
SD Card Slot	Micro SDHC slot		Micro SDHC slot	
Web-based Management	Available		Available	
Central Management Model	Enterprise Security Management		Enterprise Security Management	
Physical				
Enclosure	Desktop		Desktop	
Weight	1.3kg (2.8 lbs)		1.6kg (3.6 lbs)	
Power				
Power Input	100/240VAC, 50-60Hz		100/240VAC, 50-60Hz	
Single Power Supply Rating	12V/3.33A 40W desktop adaptor		12V/5.4A 65W desktop adaptor	
Power Consumption (Max)	25W (non-Wi-Fi), 30W (Wi-Fi option)		55W (non-Wi-Fi), 60W (Wi-Fi option)	

¹ Includes Firewall, Application Control and IPS

² Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast

Rugged Appliances¹

	1200R
Ideal Testing Conditions	
Firewall Throughput (Gbps)	2
VPN Throughput (Mbps)	450
Connections Per Second (K)	10
Concurrent Sessions (K)	400
SPU Testing Conditions	
Firewall (Mbps)	700
Firewall and IPS (Mbps)	60
Network	
10/100/1000Base-T (Max)	6
1000Base-F (Max)	2
Additional Features	
3G/4G	Yes
Serial Console Port	Yes
Mount Options	DIN rail
Central Management Model	Enterprise Security Management
Certifications	
Industrial	IEC 61850-3, IEEE 1613
Maritime	IEC-60945 B, IACS-E10 ²
Operating Environment	
Temperature	-40°to167°F / -40° to 75°C
Humidity	20%-90% (non-condensing)
Physical	
Enclosure	Desktop
Weight	1.2 kg (2.65 lbs.)
Power	
AC	100-240V, 50-60 Hz
DC	12V-72V, -48V DC
Power Consumption (Max)	15W

¹ Also see the [Siemens RUGGEDCOM APE (Application Processing Engine) Line Module]

² Test clause IEC-60945-8.12, IACS-E10-12 were not performed

Appliance Comparison Chart



DDoS Protector

	506	1006	2006	4412	8412	12412	10420	20420	30420	40420	
Network Grade	Enterprise			Datacenter			Carrier				
Performance¹											
Capacity (Gbps) ²	0.5	1	2	4	8	14	10	20	30	40	
Throughput (Gbps) ²	0.5	1	2	4	8	12	10	20	30	40	
Max Concurrent Sessions (M)	2	2	2	4	4	4	6	6	6	6	
Max DoS Flood Attack Prevention Rate (M)(pps)	1	1	1	10	10	10	25	25	25	25	
Latency	< 60 micro seconds										
Real-time Signatures	Detect and protect against attacks in less than 18 seconds										
Network											
Inspection Ports											
10/100/1000 Copper Ethernet	4	4	4	8	8	8	-	-	-	-	
1GbE Fiber (SFP)	2	2	2	4	4	4	-	-	-	-	
10GbE Fiber (XFP)	-	-	-	4	4	4	-	-	-	-	
1/10 GbE (SFP+)	-	-	-	-	-	-	20	20	20	20	
40 GbE (QSFP+)	-	-	-	-	-	-	4	4	4	4	
Management Ports											
10/100/1000 Copper	2	2	2	2	2	2	2	2	2	2	
RS-232 Console	1	1	1	1	1	1	1	1	1	1	
Operation Mode											
Network Operation	Transparent L2 Forwarding										
Deployment Modes	In-line; span port monitoring; copy port monitoring; local out-of-path; out-of-path mitigation (scrubbing center solution)										
Tunneling protocols support	VLAN Tagging, L2TP, MPLS, GRE, GTP										
IPv6	Support IPv6 networks and block IPv6 attacks										
Policy Action	Block and Report; Report Only										
Block Actions	Drop packet, reset (source, destination, both), suspend (source, source port, destination, destination port or any combination); Challenge-Response for HTTP and DNS attacks										
High Availability											
Fail-open / Fail-close	Internal fail-open/fail-close for copper ports; internal fail-close for SFP ports; optional fail-open for SFP ports ³			Internal fail-open/fail-close for copper ports; internal fail-close for SFP and XFP ports; optional fail-open for SFP and XFP ports ⁴			Internal fail-close for SFP+ and QSFP+ ports; optional fail-open for SFP+ and QSFP+ ports ⁴				
Clustering	Active-Passive Cluster										
Physical											
Enclosure	1U			2U							
Power											
Dual Power Supply	Optional			Yes - Hot Swappable							
Power Consumption (Max)	177W			476W				634W			

¹ Actual performance figures may change per network configuration, traffic type, etc.
³ External fiber fail-open switch with SFP ports is available at additional cost

² Throughput is measured with behavioral and signature protections using the eCommerce protection profile
⁴ External fiber fail-open switches with SFP or XFP ports are available at additional cost

Comprehensive Software Bundles

	NGFW ²	NGTP	NGTX
23000		✓	✓
15000		✓	✓
5000		✓	✓
6000		✓	✓
3000		✓	✓
1400 ¹		✓	✓
1200R	✓	✓	
Security Gateway Feature Sets			
Firewall	✓	✓	✓
Identity Awareness	✓	✓	✓
IPsec VPN	✓	✓	✓
Advanced Networking & Clustering	✓	✓	✓
Mobile Access	✓	✓	✓
IPS	✓	✓	✓
Application Control	✓	✓	✓
Content Awareness	✓	✓	✓
URL Filtering		✓	✓
Antivirus		✓	✓
Anti-Spam		✓	✓
Anti-Bot		✓	✓
SandBlast Threat Emulation			✓
SandBlast Threat Extraction			✓
DLP			
Security Management Feature Sets			
Network Policy Management	✓	✓	✓
Logging & Status	✓	✓	✓

Mobile Access:

The 23000, 15000, 5000, 3000 and 1200R include 5 users in the default package and this can be extended using Mobile Access extensions

The 1430/1450 and 1470/1490 include Mobile Access for 100 and 200 users respectively

Optional Security Management Software features available:

Monitoring, Management Portal, User Directory, SmartProvisioning, SmartEvent, Endpoint Policy Management, Compliance

¹ The 1400 NGTX package includes Threat Emulation. Threat Extraction is not currently supported on this appliance.

² The NGFW package is available as a renewal package.

✓ = Included