



Appliance Comparison Chart

Appliance Comparison Chart



Security Gateway Appliances

	3100	3200	5100	5200	5400	5600	5800	5900
	Branch Office		Small Enterprise			Mid-Size Enterprise		
Real-World Production Conditions								
SecurityPower	160	250	340	425	600	950	1750	2400
Firewall (Gbps)	2.1	2.1	4.2	5.3	10	17.5	22	26
IPS Throughput (Gbps)	350 Mbps	460 Mbps	730 Mbps	810 Mbps	1.08	1.9	3.05	4.36
NGFW Throughput (Gbps) ¹	220 Mbps	260 Mbps	450 Mbps	520 Mbps	690 Mbps	1.18	2	2.84
Threat Prevention (Gbps) ²	130 Mbps	160 Mbps	250 Mbps	290 Mbps	395 Mbps	645 Mbps	1.035	1.65
Ideal Testing Conditions								
Firewall Throughput (Gbps)	4	4	14.5	16	22	25	35	52
Connections Per Second (K)	40	48	110	125	150	185	185	185
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
VPN Throughput (Gbps)	1.7	2.25	1.6	1.88	2.16	6.5	10	10.2
IPS Throughput (Gbps)	1.1	1.44	2.45	3	3.9	7.8	10	13.5
NGFW Throughput (Gbps) ¹	850 Mbps	1.15	2.2	2.7	3.4	5.8	8.1	11.4
Threat Prevention (Gbps) ²	425 Mbps	740 Mbps	1.34	1.645	1.745	3.385	4.195	6.75
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 500GB 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 and IPS Software Blades.

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

³ Performance measured with default/maximum memory.

Appliance Comparison Chart



Security Gateway Appliances continued

	15400	15600	23500	23800
	Large Enterprise		Data Center Grade	
Real-World Production Conditions				
SecurityPower	2600	3850	5500	6300
Firewall (Gbps)	30	30	34	43
IPS Throughput (Gbps)	4.5	8	10	12
NGFW Throughput (Gbps) ¹	3	5.2	6.3	7.2
Threat Prevention (Gbps) ²	1.695	3	3.955	4.5
Ideal Testing Conditions Performance				
Firewall Throughput (Gbps)	58	76	116	128
Connections Per Second (K)	185	185	200	200
Concurrent Sessions (M) ³	3.2/25.6	6.4/25.6	6.4/51.2	12.8/51.2
VPN Throughput (Gbps)	10.8	15.8	26	26
IPS Throughput (Gbps)	14	18	22	30
NGFW Throughput (Gbps) ¹	12.5	17	20	27
Threat Prevention (Gbps) ²	7	13.11	17	18.6
Network				
10/100/1000Base-T (Base/Max)	10/26	10/26	10/42	10/42
1000Base-F SFP (Base/Max)	0/12	0/12	0/20	0/20
10GBase-F SFP+ (Base/Max)	2/12	2/12	2/20	2/20
40G QSFP+ (Base/Max)	0/4	0/4	0/4	0/4
100/25G QSFP28 (Base/Max)	0/4	0/4	0/4	0/4
Expansion Slot	3	3	5	5
Fail-Open/Bypass NIC Option	Yes	Yes	Yes	Yes
Additional Features				
CPUs/physical cores/virtual cores (total)	1/8/16	2/16/32	2/20/40	2/24/48
Storage	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
Memory Options (GB)	8, 24, 64	16, 32, 64	16, 64, 128	32, 64, 128
LOM Card	Included	Included	Included	Included
LCD Display	Graphic LCD	Graphic LCD	Graphic LCD	Graphic LCD
Virtual Systems				
Max (base/HPP/max memory)	10/40/40	60/80/125	60/125/125	125/250/250
Physical				
Enclosure	2U	2U	2U	2U
Weight	14.3kg (31.5 lbs)	14.3kg (31.5 lbs)	15.8kg (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
Power Input	110-240VAC (47-63Hz); -40.5VDC/24A -48VDC/19.2A, -60VDC/16.0A			
Single Power Supply Rating	AC(550W), DC(800W)	AC(550W), DC(800W)	800W	800W
Power Consumption (Max)	263W	297W	383W	399W

¹ Includes Firewall, Application Control and IPS Software Blades.

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

³ Performance measured with default/maximum memory.

Appliance Comparison Chart



Security Systems

	44000	64000
Data Center, Telco, Carrier Grade		
Real-World Production Conditions¹		
SecurityPower	Up to 33000	Up to 66000
Firewall (Gbps)	Up to 240	Up to 539
Firewall and IPS (Gbps)	Up to 71	Up to 142
NGFW (Gbps)	Up to 29.6	Up to 59.2
Threat Prevention (Gbps)	Up to 21	Up to 42
Ideal Testing Conditions		
Firewall Throughput (Gbps)	Up to 377	Up to 880
VPN Throughput (Gbps)	Up to 161.7	Up to 323
IPS Recommended Profile (Gbps)	Up to 126	Up to 252
NGFW (Gbps)	Up to 64	Up to 128
Connections Per Second (M)	Up to 4.5	Up to 9
Concurrent Sessions (M)	Up to 114	Up to 228
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

¹ Assumes maximum production throughput with real-world traffic blend, a typical rule-base size, NAT and logging enabled and the most secure threat prevention protection

Appliance Comparison Chart



Small Branch Office Security Appliances

	1430	1450	1470	1490
Real-World Production Conditions				
SecurityPower	75	141	194	233
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
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
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	
ADSL2/ADSL2+ (Annex A or B)	-		-	
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 Software Blades

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

Appliance Comparison Chart

Rugged Appliances¹

	1200R
Real-World Production Conditions	
SecurityPower	49
Firewall (Mbps)	700
Firewall and IPS (Mbps)	60
Ideal Testing Conditions	
Firewall Throughput (Gbps)	2
VPN Throughput (Mbps)	450
Connections Per Second (K)	10
Concurrent Sessions (K)	400
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

Appliance Comparison Chart

Virtual Systems Appliances

	5100 Single Unit	5100 VSLs	5200 Single Unit	5200 VSLs	5400 Single Unit	5400 VSLs	5600 Single Unit	5600 VSLs	5800 Single Unit	5800 VSLs
Performance										
Firewall Throughput (Gbps)	14.5	26.1	16.0	28.8	22	39.6	25	45	35	63
VPN Throughput (Gbps)	1.6	2.9	1.9	3.4	2.2	3.9	6.5	11.7	10	18
Concurrent Sessions (M)	6.4 ¹	7.7 ¹	6.4 ¹	7.7 ¹	12.8 ¹	15.4 ¹	12.8 ¹	15.4 ¹	12.8 ¹	15.4 ¹

	5900 Single Unit	5900 VSLs	15400 Single Unit	15400 VSLs	15600 Single Unit	15600 VSLs	23500 Single Unit	23500 VSLs	23800 Single Unit	23800 VSLs
Performance										
Firewall Throughput (Gbps)	52	93.6	58	104.4	76	136.8	116	208.8	128	230.4
VPN Throughput (Gbps)	10.2	18.4	10.8	19.4	15.8	28.4	26	46.8	26	46.8
Concurrent Sessions (M)	12.8 ¹	15.4 ¹	25.6 ¹	30.7 ¹	25.6 ¹	30.7 ¹	51.2 ¹	61.4 ¹	51.2 ¹	61.4 ¹

¹ With memory upgrade and GAiA OS

Public and Private Cloud Virtual Appliances

	VMware vSphere 5/5.1/5.5/6.0	VMware NSX Manager 6.1/6.2/6.3	Cisco APIC 1.2/1.3/ 2.0/2.1/2.2	KVM	Microsoft Hyper-V	Amazon AWS	Microsoft Azure	Google Cloud Platform	OpenStack
vSEC VE (Virtual Edition)	✓		✓	✓	✓	✓	✓	✓	✓
vSEC for NSX		✓							
Security Management	✓		✓		✓	✓	✓		✓
Multi-Domain Security Management	✓				✓	✓	✓		✓

Software Blades Appliance Comparison Chart

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

Mobile Access Software Blade:

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

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

Optional Security Management Software Blades available:

SmartWorkflow, 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