



STORMSHIELD

Matrix

Technical Specifications




* Performance is measured in a laboratory and under conditions ideal for version 5.x.


Results may vary according to test conditions and the software version.

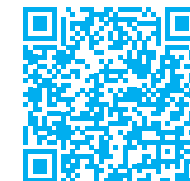
IMIX traffic with the following distribution:

- 60% of 66 bytes frame
- 25% of 512 bytes frame
- 15% of 1 518 bytes frame
- Average frame size : 395 bytes

Solutions for specific environments

	 SNI10	 SNI20	 SNI40
PERFORMANCE*			
Firewall throughput (1518 byte UDP)	8.5 Gbps	4 Gbps	4.8 Gbps
Firewall throughput (IMIX)	2.4 Gbps	2.5 Gbps	3 Gbps
IPS throughput (1518 byte UDP)	4 Gbps	2.6 Gbps	3.1 Gbps
IPS throughput (IMIX)	1.1 Gbps	690 Mbps	890 Mbps
IPSec VPN throughput (AES-GCM-256)	1.8 Gbps	800 Mbps	1.3 Gbps
Threat Prevention (Firewall, IPS, anti-virus, IP Reputation, webservice, with logging enabled):	400 Mbps	690 Mbps	890 Mbps
NETWORK CONNECTIVITY*	SNI10	SNI20	SNI40
Max number of IPSec VPN tunnels	200	200	750
Max number of SSL VPN tunnels	200	200	300
Max number of QoS queues	100	100	100
Max number of logical interfaces (agg, dialups, GRE, ipsec, loopback, pptp, vlans)	137	393	393
REDUNDANCY	SNI10	SNI20	SNI40
High availability (Active/Passive)	✓	✓	✓
Bypass (safety mode)	×	1 (option)	1
HARDWARE	SNI10	SNI20	SNI40
10/100/1000 copper interfaces	-	2-4	5
100/1000/2500 copper interfaces	4	-	-
1Gb fiber interfaces	-	0-2	2
10Gb SFP+ fiber interfaces	-	-	-
Storage (initial / optional)	SD Card	SD Card	32 GB SSD
Power supply	12-48VDC 3-0,75A	2x 12-48VDC 3-0,75A	2x 12-36 VDC 5-1,67A
DIN rail format	✓	✓	✓
Fan less	✓	✓	✓
TPM chipset	✓	✓	×
Level of protection provided by the appliance (IP code, IEC60529)	IP20	IP30	IP30
INDUSTRIAL PROTOCOLS	SNI10	SNI20	SNI40
Deep packet inspection (DPI)	Modbus, UMAS, S7 200-300-400, EtherNet/IP, CIP, OPC UA, OPC (DA/HDA/AE), BACnet/IP, PROFINET, SOFBUS/LACBUS, S7+, OMRON-FINS, IEC 60870-5-104, IEC 61850 (MMS, Goose and SV) and IT		

	 SNxr1200
PERFORMANCE*	
Firewall throughput (1518 byte UDP)	4 Gbps
Firewall throughput (IMIX)	4 Gbps
IPS throughput (1518 byte UDP)	4 Gbps
NETWORK CONNECTIVITY*	SNxr1200
IPsec VPN throughput	1.7 Gbps
Max number of VPN IPsec tunnels	500
Micro MIL-DTL-38999 connectors	✓
Max number of QoS queues	100
Max number of logical interfaces (agg, dialups, GRE, ipsec, loopback, pptp, vlans)	1,336
REDUNDANCY	SNxr1200
High availability (Active/Passive)	✓
HARDWARE	SNxr1200
Storage	128 GB SSD
Power supply	+28VDC (12VDC - 36VDC)
Fan less	✓
TPM chipset	✓
Level of protection provided by the appliance (IP code, IEC60529)	IP67
CERTIFICATIONS	SNxr1200
CE : EN55032/EN 55035 - SAFETY: EN62368-1 DO-160G / MIL-STD-461F / MIL-STD-810G	
ITAR FREE	














More information about our **virtualised solutions**



STORMSHIELD

Solutions for infrastructures

											
NUMBER OF USERS*	SN-XS-Series-170	SN-S-Series-220	SN-S-Series-320	SN-M-Series-520	SN-M-Series-720	SN-M-Series-920	SN1100	SN-L-Series-2200	SN-L-Series-3200	SN-XL-Series-5200	SN-XL-Series-6200
Firewall usage	25	50	100	150	300	500	1,000	3,000	4,000	7,500	10,000
NGFW usage (all features enabled)	10	25	50	100	200	300	700	1,000	2,000	2,500	3,000
PERFORMANCE*	SN-XS-Series-170	SN-S-Series-220	SN-S-Series-320	SN-M-Series-520	SN-M-Series-720	SN-M-Series-920	SN1100	SN-L-Series-2200	SN-L-Series-3200	SN-XL-Series-5200	SN-XL-Series-6200
Firewall throughput (1518 byte UDP)	8.5 Gbps	10 Gbps	11.9 Gbps	18.9 Gbps	38.6 Gbps	46.2 Gbps	59.4 Gbps	115 Gbps	116 Gbps	239.8 Gbps	319.3 Gbps
Firewall throughput (IMIX)	2.4 Gbps	4 Gbps	5.7 Gbps	10.6 Gbps	10.9 Gbps	21.1 Gbps	30.7 Gbps	32.8 Gbps	50.9 Gbps	64.7 Gbps	97.3 Gbps
IPS throughput (1518 byte UDP)	4 Gbps	6 Gbps	9.9 Gbps	13.8 Gbps	18.3 Gbps	33.3 Gbps	48.3 Gbps	53.1 Gbps	83.1 Gbps	93.1 Gbps	132 Gbps
IPS throughput (IMIX)	1.1 Gbps	1.7 Gbps	3 Gbps	4.1 Gbps	5 Gbps	9 Gbps	14 Gbps	14.3 Gbps	22.7 Gbps	24.9 Gbps	40 Gbps
IPsec VPN throughput - AES-GCM-256	1.8 Gbps	3 Gbps	4.8 Gbps	7.5 Gbps	7.5 Gbps	13.2 Gbps	14 Gbps	23.7 Gbps	34.9 Gbps	43.5 Gbps	59 Gbps
IPsec VPN throughput - AES-GCM-256 (IMIX)	850 Mbps	2 Gbps	2.7 Gbps	3.7 Gbps	3.8 Gbps	6.3 Gbps	6.6 Gbps	12.9 Gbps	20.9 Gbps	21.6 Gbps	28.2 Gbps
IPsec VPN (DR) throughput - AES-GCM-16/256 SHA2-256	1.6 Gbps	2.6 Gbps	3.8 Gbps	5.9 Gbps	6 Gbps	10.6 Gbps	14.3 Gbps	21.8 Gbps	33.5 Gbps	34 Gbps	45.7 Gbps
Threat Prevention throughput	400 Mbps	740 Mbps	1.1 Gbps	1.5 Gbps	2.3 Gbps	3.4 Gbps	6.7 Gbps	6.6 Gbps	9 Gbps	10.8 Gbps	12.4 Gbps
Concurrent connections	150,000	300,000	400,000	600,000	1,000,000	1,500,000	1,800,000	5,000,000	7,000,000	15,000,000	25,000,000
New connections per second	25,000	39,000	60,000	90,000	120,000	190,000	250,000	300,000	330,000	420,000	500,000
NETWORK CONNECTIVITY*	SN-XS-Series-170	SN-S-Series-220	SN-S-Series-320	SN-M-Series-520	SN-M-Series-720	SN-M-Series-920	SN1100	SN-L-Series-2200	SN-L-Series-3200	SN-XL-Series-5200	SN-XL-Series-6200
Number of rules (recommended / specific conf.)	1,024 / 2,048	2,048 / 8,192	2,048 / 8,192	4,096 / 16,384	8,192 / 32,768	8,192 / 32,768	8,192 / 32,768	16,384 / 32,768	16,384 / 32,768	16,384 / 32,768	16,384 / 32,768
Max number of static routes	512	512	512	5,120	5,120	5,120	7,680	10,240	10,240	10,240	10,240
Max number of dynamic routes	10,000	10,000	10,000	10,000	10,000	10,000	10,000	500,000	500,000	500,000	500,000
Nb of IPsec VPN tunnels (1024 kbps per tunnel)	200	300	400	1,500	2,000	2,200	4,700	6,900	10,000	20,000	30,000
Nb of SSL VPN tunnels	200	300	400	500	700	1,000	1,600	2,400	4,000	5,000	7,500
Max number of QoS queues	100	100	100	100	100	100	100	255	255	255	255
Max number of logical interfaces (agg, dialups, GRE, ipsec, loopback, pptp, vlans)	137	393	393	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336
REDUNDANCY	SN-XS-Series-170	SN-S-Series-220	SN-S-Series-320	SN-M-Series-520	SN-M-Series-720	SN-M-Series-920	SN1100	SN-L-Series-2200	SN-L-Series-3200	SN-XL-Series-5200	SN-XL-Series-6200
High availability (Active/Passive)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Redundant power supply	×	Option	Option	✓	✓	✓	Option	✓	✓	✓	✓
Redundant disk (RAID 1)	×	×	×	×	×	×	×	✓	✓	✓	✓
HARDWARE	SN-XS-Series-170	SN-S-Series-220	SN-S-Series-320	SN-M-Series-520	SN-M-Series-720	SN-M-Series-920	SN1100	SN-L-Series-2200	SN-L-Series-3200	SN-XL-Series-5200	SN-XL-Series-6200
10/100/1000 copper interfaces	-	-	-	0-8	0-8	0-8	8-24	-	-	-	-
100/1000/2500 copper interfaces	4	8	8	8-16	8-16	8-16	-	2-26	2-26	2-64	2-64
1Gb fiber interfaces	-	1	1	2-10	0-8	0-8	0-16	0-24	0-24	0-62	0-62
10Gb fiber interfaces (dual speed)	-	-	-	0-4	2-6	2-6	2-10	0-12	0-12	0-32	0-32
10Gb copper interfaces	-	-	-	0-4	0-4	0-4	0-8	0-24	0-24	0-64	0-64
25Gb fiber interfaces	-	-	-	0-2	0-2	0-2	0-4	0-12	0-12	0-32	0-32
40Gb fiber interfaces	-	-	-	-	-	-	-	0-6	0-6	0-16	0-16
Optional extension modules	-	-	-	1	1	1	2	3	3	8	8
TPM chipset	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Initial storage	-	-	-	256 GB SSD	256 GB SSD	256 GB SSD	512 GB SSD	240 GB SSD	240 GB SSD	480 GB SSD	480 GB SSD
Optional storage	MicroSD card	MicroSD card	MicroSD card	-	-	-	-	1 TB SSD	1 TB SSD	1 TB SSD	1 TB SSD
Size / Format	Desktop	Desktop	Desktop	1U 19"	1U 19"	1U 19"	1U 19"	1U 19"	1U 19"	2U 19"	2U 19"