



STORMSHIELD

Matrix

Technical Specifications



* Performance is measured in a laboratory and under conditions ideal for version 4.3.x.


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

IMIX traffic with the following distribution:

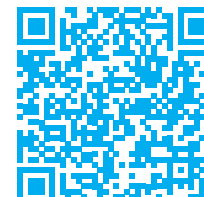
- 60% of 66 bytes frame
- 25% of 512 bytes frame
- 15% of 1 518 bytes frame
- Average frame size : 395 bytes

Solutions for specific environments

	 SNI20	 SNI40
PERFORMANCE*		
Firewall throughput (1518 byte UDP)	2.4 Gbps	4.8 Gbps
Firewall throughput (IMIX)	1.4 Gbps	2.9 Gbps
IPS throughput (1518 byte UDP)	1.6 Gbps	3.3 Gbps
IPS throughput (1 Mo HTTP)	900 Mbps	1.8 Gbps
VPN IPSec throughput (AES-GCM)	600 Mbps	1.2 Gbps
NETWORK CONNECTIVITY*	SNI20	SNI40
Max number of VPN IPSec tunnels	100	500
Max number of VPN SSL tunnels	20	100
Max number of QoS queues	100	100
Max number of logical interfaces (agg, dialups, GRE, ipsec, loopback, pptp, vlans)	393	393
REDUNDANCY	SNI20	SNI40
High availability (Active/Passive)	✓	✓
Bypass (safety mode)	Optionnel	✓
HARDWARE	SNI20	SNI40
Copper 10/100/1000 interfaces	2-4	5
Fiber 1Gb interfaces	0-2	0-2
Storage (initial / optional)	SD card	32 Go SSD
Power supply	2x 12-48VDC 3-0.75A	2x 12-36 Vcc 5-1.67A
DIN rail format, fan less	✓	✓
TPM chipset	✓	×
Level of protection provided by the appliance (IP code, IEC60529)	IP30	IP30
INDUSTRIAL PROTOCOLS	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)	2.4 Gbps
Firewall IMIX throughput	1.4 Gbps
IPS throughput (1518 byte UDP)	1.6 Gbps
IPS throughput (1 Mo HTTP)	900 Mbps
VPN IPSec throughput (AES-GCM)	600 Mbps
NETWORK CONNECTIVITY*	SNxr1200
Max number of VPN IPSec tunnels	100
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 Go 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



	SN160	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 USERS*											
Firewall usage	15	50	100	150	300	500	1 000	3 000	4 000	7 500	10 000
NGFW usage (all features enabled)	5	25	50	100	200	300	500	1 000	2 000	2 500	3 000
PERFORMANCE*											
Firewall throughput (1518 byte UDP)	1 Gbps	4 Gbps	8 Gbps	10 Gbps	18 Gbps	36 Gbps	45 Gbps	85 Gbps	115 Gbps	198 Gbps	318 Gbps
Firewall + IPS throughput (1518 byte UDP)	1 Gbps	2 Gbps	4 Gbps	5 Gbps	10 Gbps	16 Gbps	18 Gbps	52 Gbps	70 Gbps	85 Gbps	132 Gbps
Firewall + IPS throughput (1 Mo HTTP files)	400 Mbps	1 Gbps	2 Gbps	2.5 Gbps	5 Gbps	10 Gbps	12 Gbps	24 Gbps	28 Gbps	32 Gbps	40 Gbps
Firewall throughput (IMIX)	800 Mbps	3.2 Gbps	5.2 Gbps	7 Gbps	9 Gbps	15 Gbps	17 Gbps	30 Gbps	50 Gbps	53 Gbps	72 Gbps
VPN IPSec throughput - AES-GCM	74 Mbps	1 Gbps	2 Gbps	2.5 Gbps	4 Gbps	6 Gbps	7.5 Gbps	16 Gbps	27 Gbps	41 Gbps	64 Gbps
VPN IPSec DR throughput - AES-GCM-16/128 SHA2-256	60 Mbps	800 Mbps	1.6 Gbps	1.8 Gbps	3 Gbps	4.5 Gbps	5.7 Gbps	11 Gbps	17 Gbps	21.6 Gbps	27.8 Gbps
Threat Prevention throughput (Antivirus HTTP)	200 Mbps	500 Mbps	1 Gbps	1.3 Gbps	3 Gbps	3.5 Gbps	4 Gbps	8 Gbps	9 Gbps	10 Gbps	11 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	7,500	20,000	25,000	30,000	50,000	80,000	90,000	200,000	250,000	335,000	335,000
NETWORK CONNECTIVITY*											
Number of rules (recommanded / specific conf.)	1,024 / 4,096	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	1,000	10,000	10,000	10,000	10,000	10,000	10,000	500,000	500,000	500,000	500,000
Max number of VPN IPSec tunnels	50	100	100	1,000	1,000	2,000	2,000	5,000	7,500	20,000	30,000
Max number of VPN SSL tunnels (tunnel mode)	5	50	100	150	300	500	800	2,400	2,400	5,000	7,500
Max number of QoS queues	20	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
Size of the ARP table	8,704	20,480	36,864	36,864	36,864	36,864	413,696	544,768	544,768	1,069,056	1,069,056
REDUNDANCY											
High availability (Active/Passive)	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Redundant power supply	x	Optionnel	Optionnel	✓	✓	✓	Optionnel	✓	✓	✓	✓
Redundant disk (RAID 1)	x	x	x	x	x	x	x	✓	✓	✓	✓
HARDWARE											
10/100/1000 copper interfaces	1 + 4 ports (switch)	-	-	0-8	0-8	0-8	8-24	-	-	-	-
100/1000/2500 copper interfaces	-	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	0-12	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	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	SD 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"