

Hardware



Firewall & VPN Appliance

MODEL	XL	L	M	S	XS
Hardware					
Revision	4.0	4.0	4.0	4.0	2.0
CPU	12 Cores, 3.5 GHz	6 Cores, 3.5 GHz	6 Cores, 2.3 GHz	2 Cores, 2.0 GHz	2 Cores, 1.0 GHz
Memory	32 GB ECC	32 GB ECC	32 GB ECC	8 GB	2 GB
Network interfaces min.	2 x 1 Gbit/s + 2 x 10 Gbit/s	4 x 1 Gbit/s	2 x 1 Gbit/s + 2 x 10 Gbit/s	4 x 1 Gbit/s	4 x 1 Gbit/s
Network interfaces max.	14 x 1 Gbit/s + 2 x 10 Gbit/s	10 x 1 Gbit/s	6 x 1 Gbit/s + 2 x 10 Gbit/s	6 x 1 Gbit/s ⁹	4 x 1 Gbit/s
Network interfaces 10 Gbit/s max.	2 x 1 Gbit/s + 14 x 10 Gbit/s ¹	4 x 1 Gbit/s + 4 x 10 Gbit/s ¹	2 x 1 Gbit/s + 6 x 10 Gbit/s ¹	-	-
Flash Drive	500 GB SSD	500 GB SSD	500 GB SSD	64 GB SSD	16 GB
RAID level	-	-	-	-	-
DVD-ROM Drive	-	-	-	-	-
Graphics Connector	VGA	VGA	VGA, DVI, 2 x DisplayPort	HDMI	-
Serial Ports	2	2	2	2	2
USB Port	3.0	3.0	3.0	3.0	2.0
Smartcard Slot	Format ID-1	Format ID-1	Format ID-1	Format ID-1	Format ID-1
Performance					
Firewall TCP	9414 Mbit/s ³	9596 Mbit/s ³	9419 Mbit/s ³	942 Mbit/s ³	940 Mbit/s ³
Firewall UDP	19695 Mbit/s ⁴	19665 Mbit/s ⁴	19699 Mbit/s ⁴	1970 Mbit/s ⁴	1970 Mbit/s ⁴
IPsec TCP	8816 Mbit/s ⁵	9035 Mbit/s ⁵	6524 Mbit/s ⁵	905 Mbit/s ⁵	160 Mbit/s ⁷
IPsec UDP	18939 Mbit/s ⁶	14408 Mbit/s ⁶	15573 Mbit/s ⁶	1894 Mbit/s ⁶	195 Mbit/s ⁸
Chassis					
Power Supply	2 x 650 W	2 x 800 W	1 x 250 W	external 65 W	40 W
Power consumption load	340 W	165 W	100 W	50 W	15 W
BTU/h load	1156	563	340	170.5	51.15
Fixture	19" rackmount	19" rackmount	19" rackmount	19" rackmount optional	19" rackmount optional
Width	430 mm (19")	430 mm (19")	430 mm (19")	270 mm	270 mm
Height	88 mm (2 U)	44 mm (1 U)	44 mm (1 U)	44 mm (1 U)	44 mm (1 U)
Depth	500 mm	399 mm	460 mm	198 mm	198 mm
Weight	13 kg	8.1 kg	6 kg	1.8 kg	1.8 kg
Weight (incl. Packaging)	19 kg	10.0 kg	12 kg	2.0 kg	3.0 kg

¹ 1/10 Gbit/s RJ45 or SFP+ with optional multi- or mono-mode fiber optic transceiver

⁹ 2x 1 Gbit/s RJ45 or SFP with optional multi- or mono-mode fiber optic transceiver

³ tcp packets: 1448 byte

⁴ udp packets: 1500 byte bidirectional

⁵ Transparent IPsec tunnel (AES GCM, sha2-256), packets: TCP 1448 byte, with hardware acceleration (AES-NI)

⁶ Transparent IPsec tunnel (AES GCM, sha2-256), packets: UDP 1400 byte bidirectional, with hardware acceleration (AES-NI)

⁷ Transparent IPsec tunnel (AES GCM, sha2-256), packets: tcp 1448 byte

⁸ Transparent IPsec tunnel (AES GCM, sha2-256), packets: udp 1400 byte bidirectional

Hardware

XL	ENVIRONMENT OPERATION	ENVIRONMENT STORAGE
Voltage	100 - 240 V AC, 60 - 50 Hz, 8 - 4 A, connector 2x IEC-C14	-
Temperature	10 - 35 °C	-20 - 70 °C
Humidity	20 - 80 % non condensing	10 - 80 % non condensing
Shock	25 G / 2 ms	300 G / 2 ms
Vibration	5 - 500 Hz: 0.5 G	0 - 500 Hz: 3 G
Norms	CE	-
L	ENVIRONMENT OPERATION	ENVIRONMENT STORAGE
Voltage	100 - 240 V AC, 60 - 50 Hz, 5.5 A, connector 2x IEC-C14	-
Temperature	10 - 35 °C	-40 - 60 °C
Humidity	8 - 90 % non condensing	5 - 95 % non condensing
Shock	20 G: 2 ms	10 - 20 G: 10 ms
Vibration	5 - 200 Hz: 0.25 G	5 - 200 Hz: 0.5 G
Norms	CE, UL, FCC, ICES, COC	-
M	ENVIRONMENT OPERATION	ENVIRONMENT STORAGE
Voltage	100 - 240 V AC, 60 - 50 Hz, 4 - 2 A, connector 1x IEC-C14	-
Temperature	10 - 35 °C	-20 - 70 °C
Humidity	20 - 80 % non condensing	10 - 80 % non condensing
Shock	25 G / 2 ms	300 G / 2 ms
Vibration	5 - 500 Hz: 0.5 G	0 - 500 Hz: 3 G
Norms	CE	-
S	ENVIRONMENT OPERATION	ENVIRONMENT STORAGE
Voltage	90 - 240 V AC, 63 - 47 Hz, 1.0 A, connector 1x IEC-C14	-
Temperature	0 - 50 °C	-20 - 60 °C
Humidity	10 - 90 % non condensing	10 - 90 % non condensing
Shock	15 G / 11 ms	25 G / 6 ms
Vibration	2 - 9 Hz: 3,5 mm amplitude, 9 - 200 Hz: 1 G	2 - 9 Hz: 3,5 mm amplitude, 9 - 200 Hz: 1 G
Norms	CE, UL	-
XS	ENVIRONMENT OPERATION	ENVIRONMENT STORAGE
Voltage	90 - 240 V AC, 60 - 50 Hz, 1 - 0.5 A, connector 1x IEC-C14	-
Temperature	0 - 50 °C at 50 % humidity, non condensing	-20 - 70 °C at 50 % humidity, non condensing
Humidity	20 - 80 % non condensing	10 - 90 % non condensing
Shock	1 G 11 ms half-sine	10 G 11 ms half-sine
Vibration	5 - 500 Hz, PSD 0.02 G ⁹ /Hz, 0.5 Grms	5 - 500 Hz, PSD 0.02 G ⁹ /Hz, 0.5 Grms
Norms	CE	-

⁹ tcp relay, packets: TCP 1448 byte