



genubox Hardware



Model	M	S	Si
Hardware			
Revision	1.0	1.0	1.0
CPU	2 Cores, 3.5 GHz	2 Cores, 1.7 GHz	2 Cores, 1.7 GHz
Memory	8 GB ECC	2 GB	2 GB
Network interfaces min.	4 x 1 Gbit/s ¹	4 x 1 Gbit/s	4 x 1 Gbit/s
Network interfaces max.	10 x 1 Gbit/s ¹	4 x 1 Gbit/s	4 x 1 Gbit/s
Network interfaces 10 Gbit/s max. ²	2 x 1 Gbit/s + 4 x 10 Gbit/s	–	–
Flash	128 GB SSD	32 GB	32 GB
Controller	SATA	USB	USB
RAID-level	1	–	–
DVD-Rom	+	–	–
VGA	+	–	–
Serial	2	1 x RJ45	1 x RJ 45
USB	2.0	2.0	2.0
Smartcard reader	Format ID-1	Format ID-1	optional extern
Performance			
Firewall TCP ³	4860 Mbit/s	940 Mbit/s	940 Mbit/s
Firewall UDP ⁴	7790 Mbit/s	950 Mbit/s	950 Mbit/s
IPsec ⁵	3860 Mbit/s	920 Mbit/s	920 Mbit/s
Chassis			
Power supply	2 x 650 W	26.4 W	extern
Power consumption	max. 140 W (computed value)	max. 30 W	max. 30 W
Width	430 mm (19")	183 mm	50 mm
Height	88 mm (2 U)	42 mm (45.5 mm with rubber feet)	153 mm
Depth	635 mm	250 mm	110 mm
Weight	max. 17 kg	1.2 kg	1.0 kg

Model	XSo	XS	XSi
Hardware			
Revision	1.0	1.0	1.0
CPU	2 Cores, 1 GHz	1 Core, 500 MHz	1 Core, 500 MHz
Memory	2 GB	256 MB	256 MB
Network interfaces	3 x 1 Gbit/s	3 x 100 Mbit/s	3 x 100 Mbit/s
Flash	2 GB	1 GB	1 GB
Controller	USB	IDE	IDE
Serial	1	2	2 + 1 x RS485
USB	2.0	2.0	2.0
Smartcard reader	optional extern	Format ID-1	optional extern
Performance			
Firewall TCP ³	560 Mbit/s	95 Mbit/s	95 Mbit/s
Firewall UDP ⁴	810 Mbit/s	90 Mbit/s	90 Mbit/s
IPsec UDP ⁶	180 Mbit/s	80 Mbit/s	80 Mbit/s

¹ Fiber optional ² 10 Gbit/s SFP+, multi- or monomode fiber optic transceiver optional ³ TCP packets: 1448 byte

⁴ UDP packets: 1470 byte ⁵ Transparent IPsec tunnel (AES GCM, sha2-256), packets: UDP 1400 byte, with hardware acceleration (AES-NI)

⁶ Transparent IPsec tunnel (AES, md5), packets: UDP 1400 byte



Model	XSo	XS	XSi
Chassis			
Power supply	40 W	25 W	extern
Power consumption	max. 12 W	6 W	6 W
Width	168 mm	270 mm	185 mm
Height	30 mm	44 mm (1 U)	71 mm
Depth	157 mm	197.5 mm	178.1 mm
Weight	635 g	1.7 kg	1.2 kg
Environment			
Voltage	90–264 V AC, 47–63 Hz	100–240 V AC, 50–60 Hz	7–26 V DC
Operating temperature	0–40° C	0–50° C	0–50° C
Humidity	20–85 % non condensing	20–85 % non condensing	20–85 % non condensing
Norms	CE	CE	CE

Environment M	Operation	Storage
Voltage	90–264 V AC, 47–63 Hz, 3.5 A/1.5 A, 115 V AC/230 V AC	–
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	0–500 Hz/0.25 G	0–500 Hz/3 G
Norms	CE	–

Environment S	Operation	Storage
Voltage	100–240 V AC, 50/60 Hz, 0.2–0.1 A	–
Temperature	0–50° C at 50 % humidity, non condensing	-20–70° C at 50 % humidity, non condensing
Humidity	10–90 % non condensing at 40° C	10–80 % non condensing
Shock	1 G 11 ms half-sine	10 G 11 ms half-sine
Vibration	5–500 Hz, PSD 0.02 G ² /Hz, 0.5 Grms	5–500 Hz, PSD 0.02 G ² /Hz, 5.0 Grms
Norms	EN 55022 Class B, EN 55024 Class A/B	–

Environment Si	Operation	Storage
Voltage	24 V DC (20,4 V–27,6 V), current 0.5 A, max. 0.9 A	–
Temperature	0–50° C at 50 % humidity, non condensing	-20–70° C at 50 % humidity, non condensing
Humidity	10–90 % non condensing at 40° C	10–80 % non condensing
Shock	1 G 11 ms half-sine	10 G 11 ms half-sine
Vibration	5–500 Hz, PSD 0.02 G ² /Hz, 0.5 Grms	5–500 Hz, PSD 0.02 G ² /Hz, 5.0 Grms
Norms	EN 55022 Class B, EN 55024 Class A/B	–