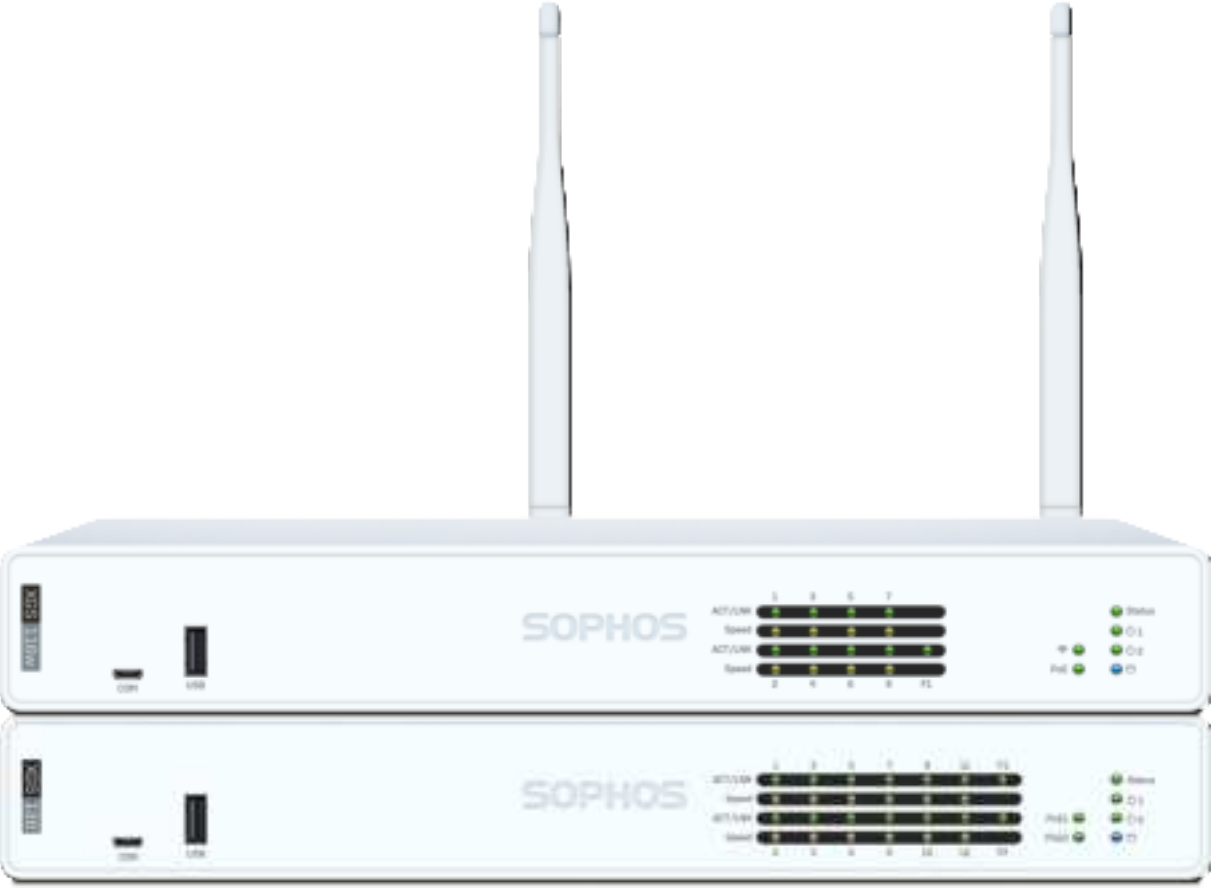
SOPHOS

Operating Instructions

XGS 116(w)/126(w)/136(w)



Foreword

We are pleased to welcome you as a new customer of our Sophos XGS appliances.

To install and configure the hardware appliance you can use the following documents:

Hardware Quick Start Guide: Connection to the system peripherals in a few steps

Operating Instructions: Notes on the security and commissioning of the hardware appliance

Sophos Firewall How-To Library: Installing and configuring the software appliance

The Hardware Quick Start Guide and the Safety Instructions are also delivered in printed form together with the hardware appliance. The instructions must be read carefully prior to using the hardware and should be kept in a safe place.

You may download all user manuals and additional documentation from the support webpage at: sophos.com/support

Security Symbols

The following symbol and its meaning appears in the Hardware Quick Start Guide, Safety Instructions and in these Operating Instructions.

Caution and Important Note. If these notes are not correctly observed:

- This is dangerous to life and the environment
- The appliance may be damaged
- The functions of the appliance will be no longer guaranteed
- Sophos shall not be liable for damages arising from a failure to comply with the Safety Instructions

Designed Use

The hardware appliances are developed for use in networks. The XGS 116(w)/126(w)/136(w) models may be operated as a standalone appliance. The hardware appliance can be used in commercial, industrial and residential environments.

The XGS 116(w)/126(w)/136(w) models belongs to the appliance group B.

The hardware appliance must be installed pursuant to the current installation notes. Otherwise failure-free and safe operation cannot be guaranteed. The EU declaration of conformity is available at the following address:

Sophos Technology GmbH
Amalienbadstr. 41/Bau 52
76227 Karlsruhe
Germany

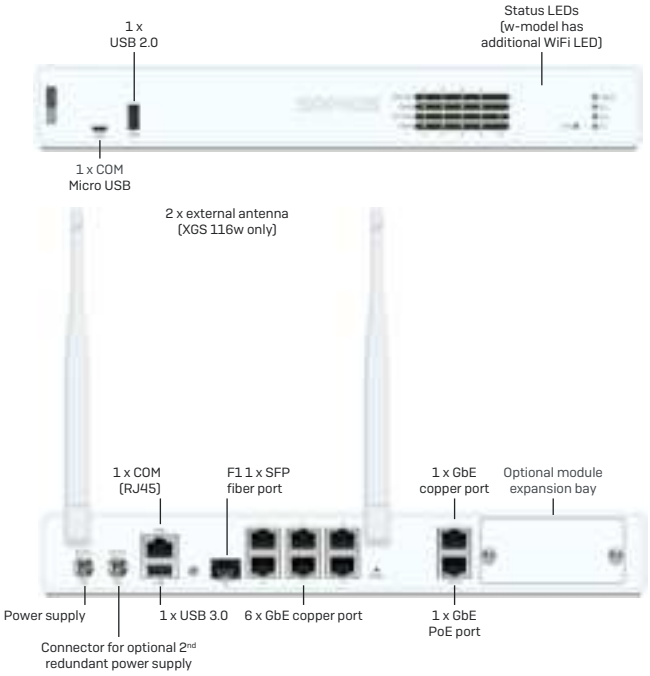
CE Labeling, FCC and Approvals

The XGS 116(w)/126(w)/136(w) appliance comply with CB, CE, UL, FCC Class B, ISED, VCCI, CCC, KC, BSMI, RCM, NOM, Anatel.

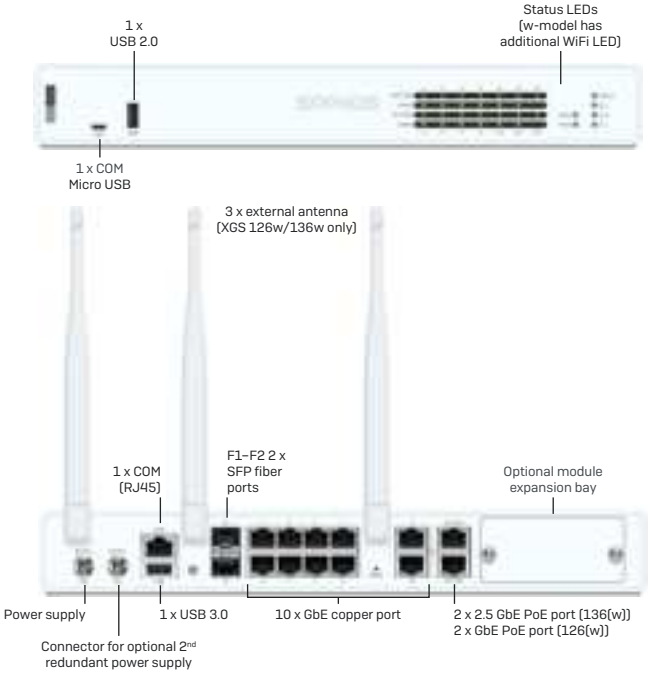
Important Note: For computer systems to remain CE and FCC compliant, only CE and FCC compliant parts may be used. Maintaining CE and FCC compliance also requires proper cable and cabling techniques.

Operating Elements and Connections

XGS 116(w)



XGS 126(w)/136(w)



Technical Specifications

	XGS 116(w)	XGS 126(w)	XGS 136(w)
Physical Specification			
#Fixed Ethernet Ports	8 x GE (1 x PoE) 1 x SFP	12 x GE (2 x PoE) 2 x SFP	10 x GE 2 x 2.5G (2 x PoE) 2 x SFP
Expansion Slots	1	1	1
Connectivity Modules (Optional) (Modules are supplied with antennas)	3G/4G Module 2nd Wi-Fi 5/802.11ac Single radio module (XGS 116w)	3G/4G Module 2nd Wi-Fi 5/802.11ac Single radio module (XGS 126w)	3G/4G Module 2nd Wi-Fi 5/802.11ac Single radio module (XGS 136w)
#Cores/Threads main CPU	4/4	2/4	2/4
Main Memory	4 GB DDR4	6 GB DDR4	8 GB DDR4
NPU Memory	4 GB DDR4	4 GB DDR4	4 GB DDR4
Storage	64 GB SSD	64 GB SSD	64 GB SSD
Power Supply	External auto-ranging AC-DC 100-240VAC, 2.5A@50-60 Hz, 12VDC, 12.5A, 150W	External auto-ranging AC-DC 100-240VAC, 2.5A@50-60 Hz, 12VDC, 12.5A, 150W	External auto-ranging AC-DC 100-240VAC, 2.5A@50-60 Hz, 12VDC, 12.5A, 150W
Power Consumption (idle - typical)	28 W / 96 BTU/hr (116) 30 W / 102 BTU/hr (116w)	30 W / 202 BTU/hr (126) 32 W / 212 BTU/hr (126w)	30 W / 102 BTU/hr (136) 32 W / 109 BTU/hr (136w)
AC Power (Max. PoE Enabled) Addition	38 W / 130 BTU/hr	76 W / 260 BTU/hr	76 W / 260 BTU/hr
Power Consumption (full load - typical)	57 W / 195 BTU/hr (126) 60 W / 205 BTU/hr (126w)	59 W / 102 BTU/hr (126) 62 W / 109 BTU/hr (126w)	62 W / 212 BTU/hr (136) 62 W / 222 BTU/hr (136w)
Mounting	Wall, Rack, DIN-Rail	Wall, Rack, DIN-Rail	Wall, Rack, DIN-Rail
Dimensions Width x Depth x Height	320 x 213 x 44 mm	320 x 213 x 44 mm	320 x 213 x 44 mm
Weight (kg) unpacked/packed	2.2 kg / 4.85 lbs (unpacked) 4.2 kg /9.26 lbs (packed)	2.4 kg / 5.29 lbs (unpacked) 4.4 kg /9.70 lbs (packed)	2.4 kg / 5.29 lbs (unpacked) 4.4 kg /9.70 lbs (packed)
Environmental			
Noise level (avg.) (typical/max)	29/43 dBA	29/43 dBA	29/43 dBA
Operating Temperature	0°C–40°C	0°C–40°C	0°C–40°C
Storage Temperature	-20°C–70°C	-20°C–70°C	-20°C–70°C
Opertional/Storage Humidity	10% - 90% non-condensing	10% - 90% non-condensing	10% - 90% non-condensing
Altitude	2000m	2000m	2000m
MTBF (hours) (Telcordia SR-332 Issue 3)	210.107 (XGS 116) 193.047 (XGS 116w)	200.091 (XGS 126) 184.003 (XGS 126w)	200.091 (XGS 136) 184.003 (XGS 136w)
Certifications (Safety, EMC)	CB, CE, UL, FCC, ISED, VCCI, CCC, KC, BSMI, RCM, NOM, Anatel	CB, CE, UL, FCC, ISED, VCCI, CCC, KC, BSMI, RCM, NOM, Anatel	CB, CE, UL, FCC, ISED, VCCI, CCC, KC, BSMI, RCM, NOM, Anatel

Interfaces

LAN Ports	*Type*	*Speed*	*Comment*
1–8	RJ45	10/100/1000 Mbps	Port 8 on XGS 116(w) can be used to power a connected device (e.g. access point, IP camera, or IP Phone) via PoE with upto 30W (PoE 802.3at).
9–10 (XGS 126(w)/136(w) only)	RJ45	100/1000 Mbps	
11–12 (XGS 126(w)/136(w) only)	RJ45	XGS 126(w): 100/1000 Mbps XGS 136(w): 100/1000/2500 Mbps	Both ports can be used to power a connected device (e.g. access point, IP camera, or IP Phone) via PoE with upto 30W (PoE 802.3at) each.
F1	SFP	1 Gbps	SFP transceivers are sold separately.
F2 (XGS 126(w)/136(w) only)	SFP	1 Gbps	SFP transceivers are sold separately.

Other Ports	*Type*	*Comment*
COM	Micro USB [front] RJ45 [back]	You can connect a serial console to the Micro USB or RJ45 COM port to access the CLI. Only one port can be used at any time. If both ports are connected, then the Micro USB port will take precedence. The required connection settings are: ‣ Bits per second: 38,400 ‣ Data bits: 8 ‣ Parity: N (none) ‣ Stop bits: 1
USB	USB 2.0 [Type A] [front] USB 3.0 [Type A] [back]	You can connect a USB 2.0 and/or 3.0 compatible device to these ports (e.g. USB thumb drive, UPS, 3G/4G dongles).

Expansion Bay	*Comment*
3G/4G Module	Can be used for Sophos XGS 3G/4G Module, which is optionally available from your Sophos partner.
WiFi Module	Can be used for Sophos XGS WiFi Module, which is optionally available from your Sophos partner.

LED Status

LEDs on each RJ45 Ethernet Connector			
ACT/LNK (Left LED)	Green	Solid	1. The Ethernet port has established link. 2. Good connection between the Ethernet port and hub.
		Flashing	The adapter is sending or receiving network data.
		Off	1. The adapter and switch are not receiving power. 2. No connection between both ends of network. 3. Network drivers have not been loaded or do not function correctly.
Speed (Right LED)	Amber	On	If Ethernet port is operating at 1000 Mbps.
	Green	On	If Ethernet port is operating at 100 Mbps.
		Off	If Ethernet port is operating at 10 Mbps.

LEDs on each SFP Connector			
ACT/LNK	Green	Solid	1. The SFP connector is receiving power. 2. Good connection between the SFP port and hub.
		Flashing	The adapter is sending or receiving network data.
		Off	1. The adapter and switch are not receiving power. 2. No connection between both ends of network. 3. Network drivers have not been loaded or do not function correctly.

LEDs (Front)			
Storage	Blue	Flashing	SSD is being accessed.
Status	Green	Solid	Normal operation.
		Flashing	Device is booting up or shutting down.
	Red	Solid	SSD or boot failure.
		Flashing	General error (please contact support).
WiFi	Green	On	WiFi is active.
		Off	WiFi is inactive.
Power 1	Green	Solid	Power adapter 1 in normal operation.
	Red	Solid	Power adapter 1 failed or disconnected.
Power 2	Green	Solid	Power adapter 2 in normal operation.
	Red	Solid	Power adapter 2 failed or disconnected.

Putting into Operation

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Scope of Supply

The supplied parts are indicated in the Hardware Quick Start Guide.

Mounting Instructions

The XGS 116/126/136 appliance can be placed on a stable horizontal surface or can be mounted to a rack or you can hang it on the wall by using the optionally available rackmount kit.

Warnings and Precautions

The appliance can be operated safely if you observe the following notes and the notes on the appliance itself.

Rack Precautions

- Ensure that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on them.
- In single rack installation, stabilizers should be attached to the rack.
- In multiple rack installations, the racks should be coupled together.
- Always make sure the rack is stable before extending a component from the rack.
- You should extend only one component at a time—extending two or more simultaneously may cause the rack to become unstable.

General Server Precautions

- Review the electrical and general safety precautions that came with the components you are adding to your appliance.
- Determine the placement of each component in the rack before you install the rails.
- Install the heaviest server components on the bottom of the rack first, and then work up.
- Allow the hot plug hard drives and power supply modules to cool before touching them.
- Always keep the rack's front door, all panels and server components closed when not servicing to maintain proper cooling.

Rack Mounting Considerations

- **Ambient operating temperature:** If installed in a closed or multiunit rack assembly, the ambient operating temperature of the rack environment may be greater than the ambient temperature of the room. Therefore, you should install the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature.
- **Reduced airflow:** Equipment should be mounted into a rack with sufficient airflow to allow cooling.
- **Mechanical loading:** Equipment should be mounted into a rack so that a hazardous condition does not arise due to uneven mechanical loading.
- **Circuit overloading:** Consideration should be given to the connection of the equipment to the power supply circuitry and the effect that any possible overloading of circuits might have on overcurrent protection and power supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- **Reliable ground:** Reliable grounding must be maintained at all times. To ensure this, the rack itself should be grounded. Particular attention should be given to power supply connections other than the direct connections to the branch circuit (i.e., the use of power strips, etc.).

Connection and Configuration

How to connect the appliance is described in the Hardware Quick Start Guide. For configuration you can follow the initial setup wizard described in the Web Admin Quick Start Guide or cancel it and perform a manual setup (see the Sophos Firewall How-To Library).

Serial Console

You can connect a serial console to either of the COM ports of the Sophos XGS hardware appliances. You can use, for instance, the Hyperterminal terminal program which is included with most versions of Microsoft Windows to log on to the appliance console. Use an RJ45 to DB9 adapter cable or the provided USB cable to connect the console to your hardware appliance.

The required connection settings are:

- **Bits per second:** 38,400
- **Data bits:** 8
- **Parity:** N (none)
- **Stop bits:** 1

Access via the serial console is activated by default on ttyS0. The connections of the appliances and the respective functionality are listed in chapter 'Operating Elements and Connections'.

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