

## Sophos XGS 108

# Sophos XGS 108 (Gen2) Network Security Appliance User Manual

Model: XGS 108 (XG108Z00ZZPCUS)

## INTRODUCTION

The Sophos XGS 108 (Gen2) is a powerful network security appliance designed for growing organizations. It features 6 copper 2.5 GE ports and 1 SFP fiber port, delivering up to 12.5 Gbps firewall throughput. This appliance integrates advanced security features such as Deep Packet Inspection (DPI), Intrusion Prevention System (IPS), and TLS 1.3 decryption to secure encrypted traffic. It also supports SD-WAN optimization and VPN for resilient connectivity and simplified administration through Sophos Central.

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**Video:** Overview of the Sophos XGS Series 2nd Gen Desktop Appliances, highlighting key features and design.

## SETUP INSTRUCTIONS

### 1. Unboxing and Package Contents

Carefully unpack the Sophos XGS 108 appliance and verify that all components are present. The standard package typically includes:

- Sophos XGS 108 (Gen2) Appliance
- Power Adapter
- Ethernet Cable
- Quick Start Guide

### 2. Physical Connections

Before powering on the device, connect the necessary cables.

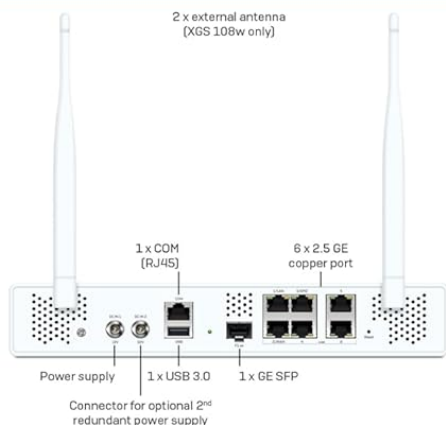
# Sophos XGS Series Desktop: SMB and Branch Office Gen.2: XGS 108, XGS 108w

## Technical specifications

### Front View



### Back View



### Physical Specifications

Mounting	Rackmount kit available (to be ordered separately)
Dimensions: Width X height X depth	260 x 44 x 180 mm
Weight	1.8 kg/3.97 lbs (unpacked) 2.4 kg/5.29 lbs (packed) (w-model minimally more)

### Environment

Power supply	External auto-ranging AC-DC 100-240VAC, 2A@50-60 Hz 12VDC, 5A, 60W Optional second redundant power supply
Power consumption	21.5 W/73.36 BTU/hr (108 idle) 25.5 W/87.01 BTU/hr (108w idle) 27 W/92.13 BTU/hr (108 max.) 30 W/102.36 BTU/hr (108w max.)
Noise level (avg.)	0 dBA - fanless
Operating temperature	0°C to 40°C (operating) -20°C to +70°C (storage)
Humidity	10% to 90%, non-condensing

### Product Certifications

Certifications	CB, CE, UKCA, UL, FCC, ISED, VCCI, KC*, BSMI, RCM, NOM, Anatel*, TEC
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\* XGS 108 only

Performance	XGS 108[w]
Firewall throughput	12,500 Mbps
Firewall IMIX	8,100 Mbps
IPS throughput	2,500 Mbps
Threat Protection throughput	2,500 Mbps
NGFW	2,600 Mbps
Concurrent connections	4,190,000
New connections/sec	53,000
IPsec VPN throughput	8,250 Mbps
SSL VPN concurrent tunnels	1,000
IPsec VPN concurrent tunnels	1,000
Xstream SSL/TLS Inspection	800 Mbps
Xstream SSL/TLS concurrent connections	12,288

Note: For performance testing methodology, see page 10

### Wireless Specification (XGS 108w only)

No. of antennas	2 external
MIMO capabilities	2 x 2:2
Wireless interface	Wi-Fi 6 (802.11ax) 2.4 GHz/5 GHz concurrent

### Physical Interfaces

Storage (local quarantine/logs)	64 GB UFS 2.1
Ethernet interfaces (fixed)	6 x 2.5 GE copper 1 x SFP fiber
Management ports	1 x COM RJ45 1 x Micro-USB (cable incl.)
Other I/O ports	1 x USB 2.0 (front) 1 x USB 3.0 (rear)
Number of expansion slots	0
Optional add-on connectivity	n/a

**Image:** Rear panel of the Sophos XGS 108 appliance, illustrating the various ports including DC IN, USB, COM, SFP, and 2.5 GE Ethernet ports.

- Power Connection:** Connect the power adapter to one of the DC IN 1 or DC IN 2 ports on the rear of the appliance and plug it into a power outlet.
- Network Connections:**
  - Connect your internet service provider's modem or router to the **WAN** port (typically labeled 1/LAN or 2/WAN, refer to the device labeling).
  - Connect your internal network switch or a computer to one of the available **LAN** ports (e.g., 1/LAN, 3/DMZ, 4, 5, 6).
  - For fiber connections, use the **SFP** port (F1 SFP).

3. **Console Connection (Optional):** For initial command-line interface (CLI) access, connect a console cable to the **COM** port.
4. **USB Devices (Optional):** USB ports can be used for external storage or other compatible peripherals.

### 3. Initial Power On and Configuration

Once all physical connections are secure, power on the appliance. The device will boot up, which may take a few minutes. Refer to the Quick Start Guide for initial access to the Sophos Firewall OS web interface. Typically, you will connect a computer to a LAN port and navigate to a default IP address (e.g., 172.16.16.16) in a web browser to begin the setup wizard.

**Note:** This appliance is hardware-only. To enable full functionality including IPS, web security, VPN, and advanced threat defense, a Sophos subscription is required.

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## OPERATING THE SOPHOS XGS 108

### Sophos Firewall OS

The Sophos XGS 108 runs on Sophos Firewall OS, providing a comprehensive suite of security features. The web-based interface allows for configuration and monitoring of all aspects of network security.

### Key Features and Functionality

- **Next-Gen Firewall:** Provides advanced threat protection, including Deep Packet Inspection (DPI) and Intrusion Prevention System (IPS).
- **TLS 1.3 Decryption:** Secures encrypted traffic by decrypting, inspecting, and re-encrypting it.
- **SD-WAN Optimization:** Ensures resilient connectivity and intelligent traffic routing across multiple WAN connections.
- **Secure VPN:** Supports site-to-site networking and encrypted remote employee access.
- **Centralized Management:** Manage your appliance through Sophos Central for simplified administration and unified security.

# All Licensing Options

We recommend the Xstream Protection bundle for the ultimate in security. If you prefer to customize your protection, subscriptions are also available for individual purchase.

Xstream Protection Bundle:	
Base License	Networking, wireless, Xstream architecture, unlimited remote access VPN, site-to-site VPN, reporting
Network Protection	Xstream TLS/DPI, IPS, Active Threat Response with Sophos X-Ops threat feeds, Heartbeat, SD-RED, reporting
Web Protection	Xstream TLS and DPI engine, web security and control, application control, reporting
Zero-Day Protection	Machine learning and sandboxing file analysis, reporting
Central Orchestration	SD-WAN VPN orchestration, Central Firewall Advanced Reporting (30-days), MDR/XDR data lake connector
DNS Protection [not sold separately]	Cloud-based DNS service for web security and compliance
Bundle-only Features [not sold separately]	Active Threat Response with MDR/XDR threat feeds and third-party threat feeds, NDR Essentials
Enhanced Support	24/7 support access, firmware and feature updates, advanced replacement hardware warranty for term

**Custom protection:** You can choose the Standard Protection bundle or purchase modules separately.

Standard Protection Bundle:	
Base License	Networking, wireless, Xstream architecture, Xstream SD-WAN, unlimited remote access VPN, site-to-site VPN
Network Protection	Xstream TLS and DPI engine, IPS, ATP, Security Heartbeat, manage SD-RED, reporting
Web Protection	Xstream TLS and DPI engine, web security and control, application control, reporting
Enhanced Support	24/7 support, firmware and feature updates, advanced replacement hardware warranty for term

Additional Protection Modules:	
Email Protection	On-box anti-spam, AV, DLP, encryption
Web Server Protection	Web Application Firewall

Sophos Central managing and reporting:

Sophos Central Management and Reporting (Included with any bundle, support, or protection subscription*)	
Sophos Central Management	Group firewall management, backup management, firmware update scheduling, ZTNA Gateway
Sophos Central Firewall Reporting	Pre-packaged and custom report tools, with seven days cloud storage for no extra charge [see other options]

\*Except the Base License

**Additional protection:**

Additional Protection Services, Products, and Modules:	
Managed Detection and Response	24/7 threat hunting, detection, and response delivered by an expert team [more info]
Sophos Intercept X Endpoint with XDR	Sophos Central managed next-gen endpoint protection with EDR [more info]
Zero Trust Network Access	A ZTNA gateway is integrated into your firewall [more info]
Central Email Advanced	Sophos Central managed antispam, AV, DLP, encryption [more info]
Sophos Switch	Cloud-managed access layer switches [more info]
Sophos Wireless	Scalable, cloud-managed Wi-Fi [more info]

**Support:** A support subscription is required to receive firmware upgrades. Enhanced support is included in all protection bundles, but you can upgrade to enhance your support experience further.

Additional Support Options:	
Enhanced Plus Support Upgrade	Upgrade your support with VIP support, hardware warranty for add-ons, TAM option (extra cost) In Active/Passive HA scenarios, Enhanced Plus support is required in the primary device to be eligible for Advanced RMA on the passive device

**Cloud, virtual, and software application licensing options:**

If you're deploying Sophos Firewall in the cloud, in a virtual environment, or as software on your own hardware, the licensing guide below can help you find the right option.

Model	Equivalent AWS Instance	Equivalent Azure VM	Software/Virtual License*
XGS 88(w)/87(w)	t3.medium	-	2 cores
XGS 108(w)/107(w)	c5.large	Standard_F2s_v2	-
XGS 118(w)/116(w)	-	-	4 cores
XGS 2100	c5.xlarge	-	-
XGS 2300	m5.xlarge	Standard_F4s_v2	6 cores
XGS 3100	c5.2xlarge	Standard_F8s_v2	8 cores
XGS 4300	c5.4xlarge	Standard_F16s_v2	16 cores
XGS 5500	c5.9xlarge	Standard_F32s_v2	Unlimited

\* Based upon CPU cores

For a complete list of features included in each protection subscription, see the Sophos Firewall Feature List.

**Image:** Diagram illustrating the Sophos security ecosystem, showing how various components like SaaS apps, cloud apps, remote workers, and endpoints are protected and managed through Sophos Central.

## Sophos Central Management

Sophos Central offers a unified cloud management platform for all your Sophos products. Once your XGS 108 is registered, you can manage its configuration, monitor its status, and deploy policies from a single console.

# Sophos XGS Series Appliances

The XGS Series models offer excellent performance and connectivity at every price point to power the protection you need for today's diverse, distributed, and encrypted networks.

## Product Matrix

Model		Tech Specs			Throughput			
Model	Form Factor	Ports/Slots (Max Ports)	w-model	Swappable Components	Firewall (Gbps)	IPsec VPN (Gbps)	Threat Protection (Gbps)	Xstream SSL/TLS (Gbps)
XGS 88(w)	Gen.2 Desktop**	4/- (4)	Wi-Fi 6	n/a	9.9	6.0	2.0	600 Mbps
XGS 108(w)		7/- (7)		Optional: 2 <sup>nd</sup> power supply	12.5	8.2	2.5	800 Mbps
XGS 118(w)		10/1 (10)		Optional: 2 <sup>nd</sup> power supply, 5G module*	15.5	13.0	3.2	1.1
XGS 128(w)		10/1 (10)			19.1	15.0	4.0	1.4
XGS 138		8/1 (8)		n/a	19.1	6.6	4.7	1.7
XGS 2100	1U Short	10/1 (18)	n/a	Optional: external power supply	30.0	17.0	5.0	1.1
XGS 2300		n/a	39.0		20.5	5.5	1.4	
XGS 3100		n/a	47.0		25.5	7.4	2.4	
XGS 3300		n/a	58.0		31.1	10.0	3.1	
XGS 4300		n/a	75.0		62.5	25.2	8.0	
XGS 4500	1U Long	12/2 (28)	n/a	Optional: internal power supply	80.0	75.5	31.8	10.6
XGS 5500	2U	16/3 (48)	n/a	Built in: redundant power, SSDs, fans	100.0	92.5	46.0	13.5
XGS 6500		20/4 (68)	n/a		120.0	109.8	53.5	16.0
XGS 7500		n/a	n/a		160.0	117.0	70.0	19.5
XGS 8500		22/4 (70)	n/a		190.0	141.0	92.5	24.0

\* Not available in Japan

\*\* All Gen.2 desktop models include two or more 2.5G ports

**Image:** Table detailing the features included with Sophos Xstream Protection, covering base firewall features, network protection, web protection, zero-day protection, DNS protection, Sophos Central management, and enhanced support.

## MAINTENANCE

### Firmware Updates

Regularly check for and apply firmware updates to ensure your appliance has the latest security patches and features. Firmware updates are typically managed through the Sophos Firewall OS web interface or Sophos Central.

### Monitoring and Logging

Utilize the monitoring and logging capabilities within Sophos Firewall OS and Sophos Central to keep track of network activity, security events, and appliance performance. This helps in proactive identification and resolution of potential issues.

### Physical Inspection

Periodically inspect the appliance for proper ventilation and ensure all cables are securely connected. Keep the device in a cool, dry environment to prevent overheating.

## TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting, refer to the Sophos documentation or contact support.

### No Power

- Ensure the power adapter is securely connected to both the appliance and a working power outlet.
- Check the power outlet with another device to confirm it is functional.
- Verify the power LED on the appliance is illuminated.

## No Network Connectivity

- Check that Ethernet cables are properly connected to the correct ports (WAN for internet, LAN for internal network).
- Verify the link/activity LEDs on the connected ports are active.
- Ensure your computer or network devices are configured to obtain an IP address automatically (DHCP) or have correct static IP settings.
- Restart the appliance and connected network devices.

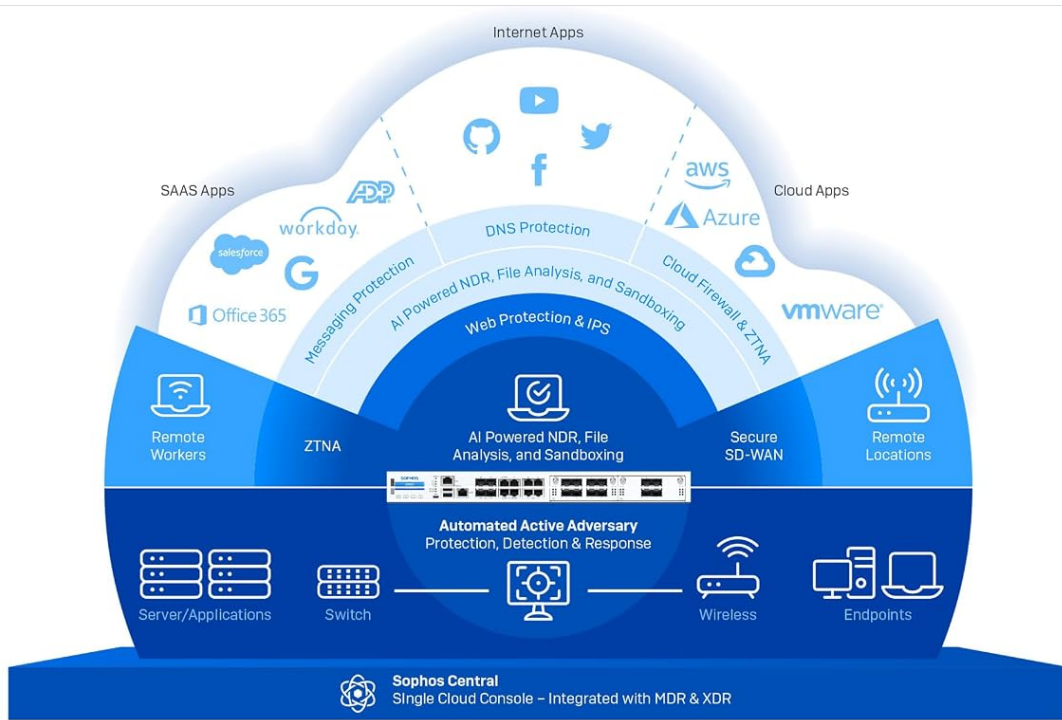
## Cannot Access Web Interface

- Confirm your computer is connected to a LAN port of the Sophos XGS 108.
- Ensure your computer's IP address is in the same subnet as the appliance's default management IP (e.g., 172.16.16.x if the appliance is 172.16.16.16).
- Try clearing your browser's cache or using a different browser.
- If the issue persists, a factory reset might be necessary (refer to the Quick Start Guide for instructions, as this will erase all configurations).

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## TECHNICAL SPECIFICATIONS

The Sophos XGS 108 (Gen2) offers robust performance and connectivity. Below are key technical specifications:



## Powerful Protection and Performance

Sophos Firewall includes the latest advanced protection technologies and threat intelligence, including:

- ▶ Streaming DPI engine with web protection and IPS
- ▶ Accelerated TLS 1.3 encrypted traffic inspection
- ▶ Zero-day AI and machine learning analysis
- ▶ Real-time cloud sandboxing
- ▶ DNS Protection
- ▶ Network Detection and Response

The best part is, you don't need to compromise on performance. This is thanks to our programmable Xstream architecture. It offloads benign traffic flows and crypto operations as well as VPN and select application routing to accelerate these network traffic flows and create performance headroom for traffic that actually needs deep packet inspection.

Sophos Firewall leverages the Sophos Cloud to ensure that your organization is protected from the latest threats and further maximize your performance. You get the latest AI and machine learning technology from SophosLabs working to identify previously unseen threats and malicious URLs. Using a common cloud, any new threat attacking a single Sophos customer is instantly shared across all our customers, blocking it everywhere. In addition, offloading this analysis from your firewall to the cloud boosts your performance even further.

**Image:** Detailed technical specifications table for the Sophos XGS 108 (Gen2) appliance, covering performance, physical interfaces, physical specifications, environment, power supply, and product certifications.

Feature	Detail
Brand	Sophos
Model Name	XGS 108
Model Number	XG108Z00ZZPCUS
Connectivity Technology	Ethernet, Wi-Fi (with optional module), 5G (via external modem)
Number of Ports	7 (6 x 2.5 GE Copper, 1 x SFP)

Feature	Detail
Data Transfer Rate	2500 Megabits Per Second (LAN Port Bandwidth)
Operating System	Sophos Firewall OS
Security Protocol	WPA2-PSK, WPA3, WPA2-Enterprise, WPA-Enterprise
Router Firewall Security Level	Advanced
Recommended Uses	Business
Dimensions (H x W x D)	44 x 250 x 174 mm (1.73 x 9.84 x 6.85 inches)
Weight	1.8 kg (3.97 lbs) unpacked

## WARRANTY INFORMATION

Sophos products typically come with a standard manufacturer's warranty. Specific warranty terms and duration may vary by region and purchase agreement. For detailed warranty information, please refer to the documentation included with your purchase or visit the official Sophos website. Extended protection plans and support services are available separately and can enhance your coverage.

## SUPPORT

For technical assistance, product documentation, and software downloads, please utilize the following resources:

- **Sophos Central:** Your centralized management platform for configuration, monitoring, and reporting.
- **Sophos Support Portal:** Access knowledge base articles, FAQs, and submit support tickets. Visit [www.sophos.com/support](http://www.sophos.com/support).
- **Sophos Community:** Engage with other users and Sophos experts for advice and solutions.
- **Contact your Reseller:** For purchase-specific support or inquiries regarding your subscription.