IGS-H7832XF-SFP

32GE SFP + 8 10GE SFP+ Managed Ethernet Security Switch;

dual DCI/AC input models w/optional L3L/L3 & Cybersecurity



OVERVIEW

Lantech IGS-H7832XF-SFP is a high-performance OS5 full-SFP Ethernet security switch with 32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP rackmount switch (total 40 ports). The OS5 platform supports L3/L2, IPv6/v4, NAT**, standardized ITU G.803 ring, IEC62443-4-2 certified cybersecurity, SNMPv3, Macsec**, PTP v2** as well as ETBN TTDP**, TRDP* protocol suitable for the future-proof modern network.

Support Restful API for better switch performance; Auto-provisioning for firmware/configuration update

The switch supports Restful API that uses JSON format to access and use data for GET, PUT, POST and DELETE types to avoid traditional SNMP management occupying CPU utilization. It also supports auto-provisioning for switch to auto-check the latest software image and configuration through TFTP server.

SNMP v3 Security Models

SNMPv3 enhances security with three key models. The User-based Security Model (USM) provides authentication and encryption, verifying the sender's identity and protecting data. The View-based Access Control Model (VACM) manages user access to specific objects based on their security level. The Transport Security Model (TSM) uses secure protocols like TLS or DTLS for communication encryption. Together, these models make SNMPv3 implementations highly secure, meeting modern cybersecurity standards for large-scale and high-security projects.

Comprehensive Network Protection Against DDoS and Layer 2 Threats

Lantech OS5 generation integrates advanced security mechanisms to safeguard both switches and networks. Key features include DDoS attack mitigation, 802.1X port-based authentication, Dynamic ARP Inspection (DAI), IP Source Guard, and Port Security, providing multi-layer protection against spoofing, unauthorized access, and traffic floods. These security capabilities ensure stable, resilient network operation.

DCI / AC inputs with redundancy & load sharing (2AC/2DCI)

The switch is designed for easy maintenance and installation. It supports dual DCI power supplies (galvanic isolated DC 16.8~137.5V) or dual isolated AC 90~264VAC IEC320 power input to increase system reliability. In addition, the system incorporates a simultaneous load sharing mechanism between the two power sources.

Support RTC (Real Time Clock) with longevity golden capacitor

Our switch supports RTC which is powered by a golden capacitor, ensuring accurate real-time event logs for all times. Unlike traditional batteries, golden capacitors offer superior reliability, and longevity, without a need to change battery.

Auto feed configuration for swapped new switches for Seamless Network Maintenance

The IGS-7832XF-SFP supports auto-feed configuration features that revolutionize network switch setup and management. It ensures that new and replacement switches automatically receive the correct configuration without manual intervention.

User-friendly GUI, Auto topology drawing, Enhanced Environmental Monitoring

The user-friendly UI, innovative auto topology drawing, and topology demo make the switch much easier to get hands-on. The complete CLI enables professional engineers to configure settings by command line. It supports enhanced environmental monitoring for actual input voltage, current, switch ambient temperature and total power load.

Editable configuration file; USB port for import/export configuration; USB Type-C console port

The configuration file of the switch can be imported and edited with a word processor for the following switches to configure with ease. The USB data port can import/export the configuration from/to the USB dongle and also to upgrade firmware. It supports USB type-C console port that allows CLI access without an external RS232 adapter is required.

Out-Of-Band management

The switch can be accessed via the out-of-band (OOB) management port, also known as the service port, without the need to use the console port. OOB management allows a separate and secure method to access and manage the switch even when the primary network is inaccessible.

OPTIONAL FEATURES

Lantech OS5 platform is equipped with complete L2 management and is L3Lite/L3 upgradable supporting protocols incl. dynamic routing, multicast routing, hardware NAT and ETBN TTDP/ TRDP*; VRRP aware PIM* under VRRP, optional PTP, optional MacSec to be upgradable

The switch runs on the Lantech OS5 platform and features major L3L**/L3** protocols inclusive of RIPv2(L3), OSPF, PIM, DVMRP(L3), IEC61375-2-5 (ETBN), TRDP* and hardware-based NAT and VRRP aware PIM* under VRRP. It also supports optional Macsec for authentication and encryption between two Macsec devices. The optional PTP V2 supports transparent clock, boundary clock and ordinary clocks with 2-step processing that synchronizes network time accuracy to sub-microseconds. To learn more about the Lantech OS5 Platform, please refer to **Lantech OS5 Software Datasheet**

Optional Certified IEC 62443-4-2** with Physical Tamper Resistance and a Variety of Security Measures

For enhanced cybersecurity, the optional certified IEC 62443-4-2** model is available. This includes over 90 security measures such as vulnerability checking, encrypted files, public key management, strong password enforcement, account management, and both penetration and stress testing. It emphasizes protection against unauthorized access, tampering, and malware through detailed log events and roots of trust security IC. To learn more about Lantech cybersecurity software solutions, please refer to
https://www.lantechcom.tw/global/eng/download/datasheet/D-OS5.pdf

Optional LantechView for Lantech devices maintenance

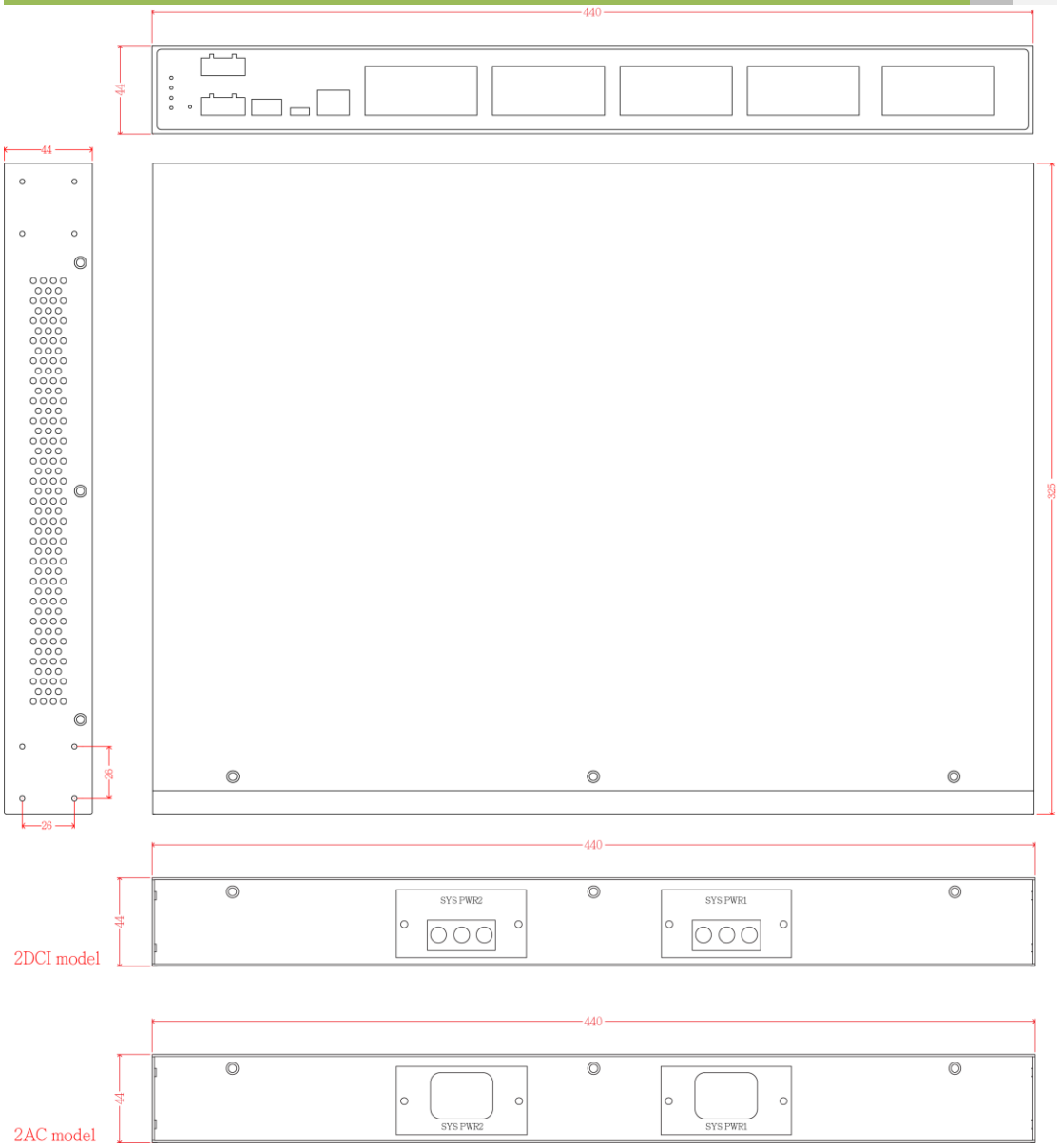
LantechView** can automatically discover Lantech devices on the network, providing seamless configuration

management across multiple IP subnets and VLAN areas (single device and batch). It also supports firmware management, allowing single and batch verification and simultaneous upgrades to the latest firmware versions. To learn more about Lantech LantechView** software solutions, please refer to https://www.lantechcom.tw/global/eng/download/datasheet/D-LantechView.pdf

OS5 vs. OS5 - SEC models comparison

	OS5	OS5 - SEC
IEC 62443-4-2 Cyber Security	NA	Y, need optional license
Boot up time	Around 100 sec.	Around 135 sec.

DIMENSIONS (unit=mm)



SPECIFICATIONS

Hardware Specification

Standards	IEEE 802.3u 100BASE-FX IEEE 802.3z 1000BASE-SX / 1000BASE-LX IEEE 802.3ae 10GBASE-SR (850nm multi-mode) /10GBASE-LR (1310nm single-mode) / 10GBASE-ER (1550nm single-mode) IEEE802.3x Flow Control and Back Pressure IEEE802.3ax Port trunk with LACP IEEE802.1d Spanning Tree IEEE802.1w Rapid Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1X User Authentication (Radius) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag
Switch Architecture	Back-plane (Switching Fabric): 224Gbps
Mac Address	16K MAC address table
Jumbo frame	10KB
Connectors	32 100/1G Mini-GBIC: SFP sockets 8 1G/2.5G/5G/10G Mini-GBIC: SFP+ sockets Console: USB2.0 type C USB2.0 type A slot for upload/download config file Out-Of-Band connector: RJ45 *1 DIDO and Relay: 2X 4 pin terminal blocks
Optical Cable	**1Gbps:** Multi-mode: 0 to 550 m, 850 nm (50/125 µm); 0 to 2 km, 1310 nm (50/125 µm) Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 nm (9/125 µm); 0 to 50 km/ 60 km/ 80km/ 120 km, 1550 nm (9/125 µm) **2.5Gbps** Multi-mode: 0 to 300 m, 850 nm (50/125 µm); Single mode: 0 to 2 km/ 15 km/ 40 km, 1310 nm (9/125 µm); 0 to 40 km/ 80 km/ 100km,

	1550 nm (9/125 μm) **WDM 1Gbps:** Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1310 nm (9/125 μm); 0 to 80 km, 1490 nm (9/125 μm); 0 to 10 km/ 20 km/ 40 km/ 60 km/ 80 km, 1550 nm (9/125 μm) **WDM 2.5Gbps** Single mode: 0 to 5 km/ 20 km/ 40 km/ 60 km, 1310 /1550nm (9/125 μm); 0 to 80 km, 1490/1550 nm (9/125 μm) **10Gbps** Multi-mode: 0 to 300 m, 850 nm (OM3 50/125 μm); Single mode: 0 to 10 km/ 20 km, 1310 nm (9/125 μm); 0 to 40 km/ 80km/ 100 km, 1550 nm (9/125 μm) **WDM 10Gbps** Single mode: 0 to 10 km/ 20 km/ 40 km/ 60 km, 1270/1330 nm (9/125 μm); 0 to 80km, 1490/1550 nm (9/125 μm)
LED	Per unit: Power 1 (Green), Power 2 (Green), FAULT (Red) R.M. indicator (Green) 100M/1G Mini-GBIC: Link/Active (Green); Speed (Orange) 2.5G/5G/10G Mini-GBIC: Link/Activity (Green); Speed (Orange)
Operating Humidity	5% ~ 95% (Non-condensing)
Operating Temperature	-20°C~60°C / -4°F~140°F (standard model) -40°C~75°C / -40°F~167°F (-E model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Power Supply	2DCI model: Galvanic isolated 16.8~137.5VDC 2AC model: 2x 90-264VAC IEC320 power input socket
Power Consumption	Max. 70W
Dimensions	Metal case. IP-30 440mm(W)x44mm(H)x325mm(D)
Weight	2.9kgs
Installation	Rackmount Design
EMI & EMS	FCC Part 15 Class A EN61000-6-2 EN61000-6-4 CE EN55032 Class A CE EN55035 CE EN61000-4-2 (ESD) Level 3 CE EN61000-4-3 (RS) Level 3 CE EN61000-4-4 (EFT) Level 3 CE EN61000-4-5 ED3 (Surge) Level 3 CE EN61000-4-6 (CS) Level 3 CE EN61000-4-8 (Magnetic field) Level 3
Verifications	EN50121-1/EN50121-4; EN50125-3, EN50124-1/IEC60664-1, EN61140-1
MTBF	240,114 hrs (standards: IEC 62380)

Software Specification

Lantech OS5 Platform	**Download Software Datasheet**

*Future release
**Optional

ORDERING INFORMATION

2AC; 2DCI are fixed configurations for ordering, user cannot add or remove the power supply on their own.
Add -PTP for PTP models; add -MacSec for MacSec models; add -SEC for Cybersecurity models For LantechView, L3 Lite (L3L), or L3 software, please refer to the corresponding software part numbers as listed in the software datasheet.
https://www.lantechcom.tw/global/eng/download/datasheet/D-OS5.pdf

- **IGS-H7832XF-SFP-2DCI-OOB ……..P/N: 8361-039**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in x2 galvanic isolated DC 16.8~137.5VDC power supply; IP30 rackmount design; -20°C to 60°C；w/Out-of-band
- **IGS-H7832XF-SFP-2DCI-E-OOB ……..P/N: 8361-0391**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in x2 galvanic isolated DC 16.8~137.5VDC power supply; IP30 rackmount design; -40°C to 75°C；w/Out-of-band
- **IGS-H7832XF-SFP-2AC-EU-OOB……P/N: 8361-0392**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in 2x isolated 90- 264VAC IEC320 power conversion; IP30 rackmount design; -20°C to 60°C; EU power cords；w/Out-of-band
- **IGS-H7832XF-SFP-2AC-EU-E-OOB……P/N: 8361-0393**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in 2x isolated 90- 264VAC IEC320 power conversion; IP30 rackmount design; -40°C to 75°C; EU power cords；w/Out-of-band
- **IGS-H7832XF-SFP-2AC-UK-OOB……P/N: 8361-0394**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in 2x isolated 90- 264VAC IEC320 power conversion; IP30 rackmount design; -20°C to 60°C; UK power cords；w/Out-of-band
- **IGS-H7832XF-SFP-2AC-UK-E-OOB……P/N: 8361-0395**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in 2x isolated 90- 264VAC IEC320 power conversion; IP30 rackmount design; -40°C to 75°C; UK power cords；w/Out-of-band
- **IGS-H7832XF-SFP-2AC-US-OOB……P/N: 8361-0396**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in 2x isolated 90- 264VAC IEC320 power conversion; IP30 rackmount design; -20°C to 60°C; US power cords；w/Out-of-band
- **IGS-H7832XF-SFP-2AC-US-E-OOB……P/N: 8361-0397**
  32 100M/1G SFP + 8 1G/2.5G/5G/10G SFP+ OS5 Managed Ethernet Switch; Built-in 2x isolated 90- 264VAC IEC320 power conversion; IP30 rackmount design; -40°C to 75°C; US power cords；w/Out-of-band

OPTIONAL ACCESSORIES

Software package

Please refer to the software datasheet

Power cords (2AC models)

- EUROPE AC POWER CORDS..... P/N: 4106-00000014-001
- USA AC POWER CORDS ..... P/N: 4106-00000012-001
- UK AC POWER CORDS ..... P/N: 4106-00000015-001

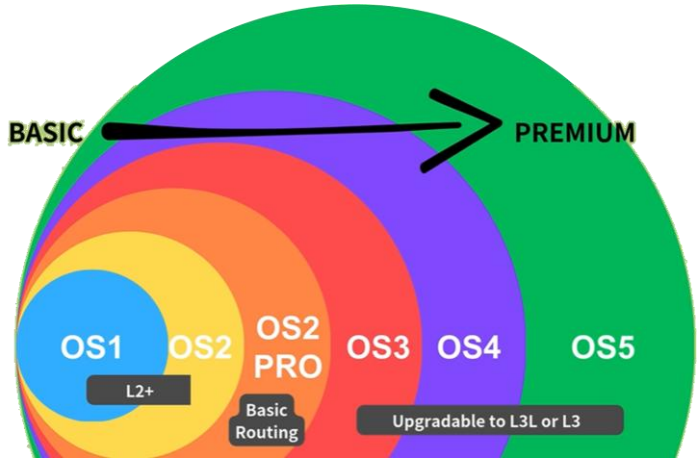
Mini GBIC (SFP)

- **8330-162D-V1** MINI GBIC 1000SX (LC/0.5km) Transceiver
- **8330-163D-V1** MINI GBIC 1000SX2 (LC/2km) Transceiver
- **8330-165D-V1** MINI GBIC 1000LX (LC/10km) Transceiver
- **8340-0591D-V1** MINI GBIC 1000LHX (LC/40km) Transceiver
- **8330-166D-V1** MINI GBIC 1000XD (LC/50km) Transceiver
- **8330-169D-V1** MINI GBIC 1000XD (LC/60km) Transceiver
- **8330-167D-V1** MINI GBIC 1000ZX (LC/80km) Transceiver
- **8330-170D-V1** MINI GBIC 1000EZX (120km) Transceiver
- **8330-168-V1** MINI GBIC 1000T (100m) Transceiver
- **8330-188D-V1** LTSFP-1000BX-10KM Transceiver (WDM 1310)
- **8330-189D-V1** LTSFP-1000BX-10KM Transceiver (WDM 1550)
- **8330-186D-V1** LTSFP-1000BX-20KM Transceiver (WDM 1310)
- **8330-187D-V1** LTSFP-1000BX-20KM Transceiver (WDM 1550)
- **8330-180D-V1** LTSFP-1000BX-40KM Transceiver (WDM 1310)
- **8330-182D-V1** LTSFP-1000BX-40KM Transceiver (WDM 1550)
- **8330-181D-V1** LTSFP-1000BX-60KM Transceiver (WDM 1310)
- **8330-183D-V1** LTSFP-1000BX-60KM Transceiver (WDM 1550)
- **8330-184D-V1** LTSFP-1000BX-80KM Transceiver (WDM 1490)
- **8330-185D-V1** LTSFP-1000BX-80KM Transceiver (WDM 1550)
- **8330-262D-V1** MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver
- **8330-263D-V1** MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver
- **8330-265D-V1** MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver
- **8330-193D-V1** 10G Base SFP+ SR, Multi-mode (LC/300m) Transceiver
- **8330-194D-V1** 10G Base SFP+ LR, Single-mode (LC/10km) Transceiver
- **8330-223D-V1** 10G Base SFP+ LR, Single-mode (LC/1310nm/20km) DDM Transceiver
- **8330-225D-V1** 10G Base SFP+ LR , Single-mode (LC/1310nm /40km) DDM Transceiver
- **8330-205D-V1** 10G Base SFP+ LR , Single-mode (LC/1550nm/40km) DDM Transceiver
- **8330-209D-V1** 10G Base SFP+ , Single-mode(10km) Transceiver (WDM 1270)
- **8330-210D-V1** 10G Base SFP+ , Single-mode(10km) Transceiver (WDM 1330)
- **8330-200D-V1** 10G Base SFP+ , Single-mode(20km) Transceiver (WDM 1270)
- **8330-201D-V1** 10G Base SFP+ , Single-mode(20km) Transceiver (WDM 1330)
- **8330-202D-V1** 10G Base SFP+ , Single-mode(40km) Transceiver (WDM 1270)
- **8330-203D-V1** 10G Base SFP+ , Single-mode(40km) Transceiver (WDM 1330)
- **8330-206-V1** 10G/5G/2.5G/1000Base-T SFP, 3.3V,30m (10G) 50m (2.5G/5G) 100m (1G); -10~70°

All SFPs ended with D are with Diagnostic function

Managed Switch OS Generations

We offer a comprehensive range of managed switches, from OS1 and OS2 with rich L2+ management features, to OS2 PRO with basic routing functionality, and OS3, OS4, and OS5, which can be upgraded with optional Layer 3 Lite or Layer 3 capabilities to meet diverse customer needs. Note: Model differences include both software features and hardware specifications.



[LEARN MORE]

→ OS2PRO Generation

→ OS3/OS4 Generation

→ OS5 Generation

[CHECK THE DIFFERENCES]

→ Generation Comparison Table

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The revised authority rights of product specifications belong to Lantech Communications Global Inc.
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