

S7800 SERIES SWITCHES

HOHUNET

DATASHEET

High Performance Data Center Switch

Version:V1.1

Release

Date:2025/12/29

Product Overview

The S7800 Series switches designed on a domestic new generation switch Chip, which called [PeakNetX Series Chip platform](#). With 32 x 100G high speed ports and rich features, these switches will perfectly meets the requirements of Metro, Enterprise, Data Center, and Hyper converged infrastructure (HCI) networks.



Key features of the S7800 Series Switches

- MPLS (label-switching-based) integrates IP flexibility and connection-oriented reliability, enabling isolated multi-service bearing, precise traffic scheduling to meet multi-scenario efficient needs.
- MLAG which can build an Active-Active system to improve the reliability of the network links from single board grade to device grade.
- Implementing Vxlan and BGP protocols to build EVPN applications for data centers scenario.
- Switch-to-switch encryption using MACsec (Media Access Control Security) AES-CMAC.
- Precision Timing Protocol.
- Rich L2/L3 features like IPv6, OSPF, BGP, PIM, etc.

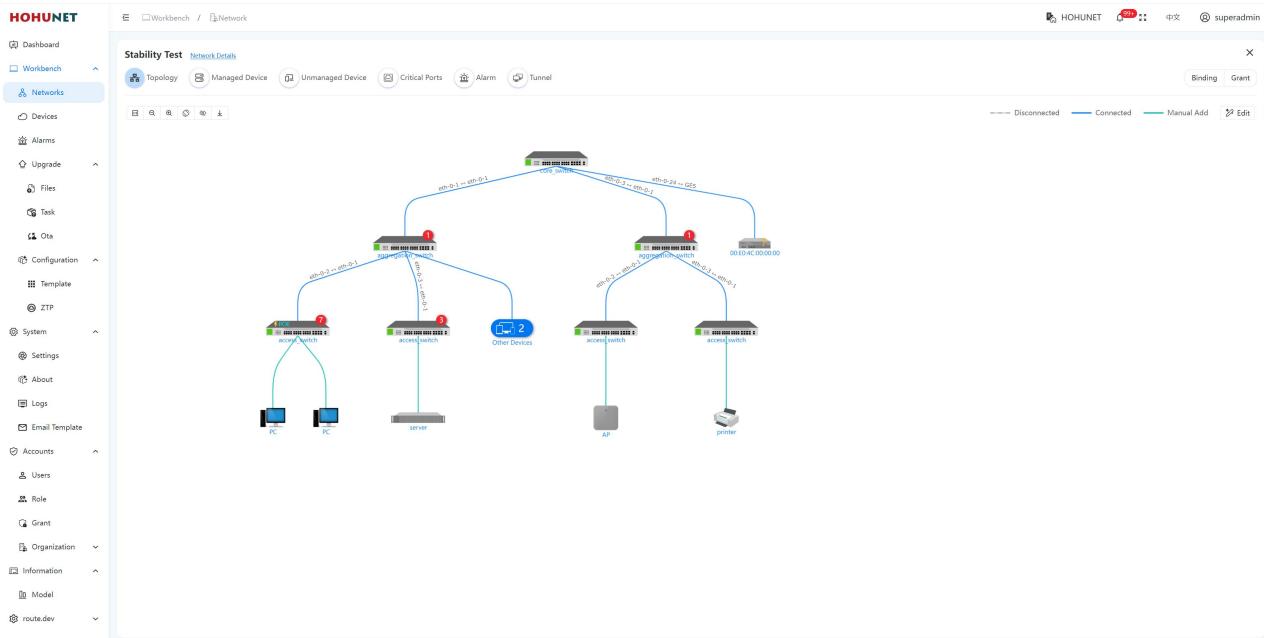
The S7800 Series switches provide redundant hot-swappable power supplies (AC and DC are both available) and two bays with Field replaceable fan modules. Generally, airflow of S7800 Series is front to rear (AFO), and some of models can do customization of rear to front (AFI) airflow.

Table 1: Feasible PSU and airflow of S7800 Series

Items	AC	DC	AFO	AFI	Power Input	FAN
S7832Z-EI	○	○	○	○	2	4

The S7800 Series switches support varied management ways, include console port / in-band network ports / out-of-band network port. Support SNMP v1/v2/v3, Support CLI (Command Line Interface), web management, Telnet and FTP connection. Support OAM to make management more convenient, and support SSH2.0, SSL, etc. to ensure security of management.

Moreover, leveraging its profound technical expertise and in-depth understanding of campus and enterprise networking needs, Hohunet has launched the Da Hu Cloud Management System (DHCS). It enhances network management and maintenance efficiency, reduces costs, elevates management intelligence, and delivers a faster, smarter, more secure and reliable network to better meet user requirements.



Visual WEB GUI

HOS allows you to quickly configure common configuration items using a visual WEB GUI, which lowers the application threshold for users.

The screenshot shows the HOHUNET web interface for monitoring a S7800 series switch. The left sidebar includes links for Monitor, Configuration, Maintenance, and Network. The main content area is divided into several sections:

- Device Information:** Shows Product ID: 1.1, Location: --, Image Name: ulimage.lsl023a.e680.d, WebImage Name: --, Serial Number: --, Contact: --, Uptime: 0 days, 6 hours, 42 minutes, Device Name: 5648X, EPROM Version: 0.2, BootRom Version: v1.0.2, MAC Address: D8:5B:22:00:02:02.
- Interface Panel:** A 4x10 grid of ports (1-40) with status indicators. A legend indicates: Active (green), Inactive (grey), and Shutdown (black).
- Usage:** CPU Usage: 7.53%, Memory Usage: 36.94%.
- Temperature:** Shows temperatures around the chip (40°C) and switch (40°C).
- Fan:** Shows four fans (1-1, 1-2, 1-3, 1-4) all in OK (blue) status.

At the bottom, there are buttons for Auto refresh (Manual), Refresh, and Copyright © All Rights Reserved.

The S7800 family of Ethernet switches consists of the following models

Table 2: Family of the S7800 Series switches

Models	Ethernet Ports	Management	PSU 1/PSU 2	Cooling
S7832Z-EI	32 x 100G QSFP 28	Console: RJ45 to RS232 Ethernet: 1G Port Storage: USB	550W / 550W CRPS	4 x Fan Modules (front-to-back airflow)

S7800 Physical Specifications

Packet Switch capacity (Tbps)

- S7832Z-El: 6.4 Tbps (bidirectional)

Weight (Net weight/Gross weight)

- S7832Z-El: 9.2 kg/11kg

Layer 2/Layer 3 Throughput (Gbps)

- S7832Z-El: 9.52 Gbps (bidirectional)

Power consumption

Worst case, all ports used, line-rate traffic

- S7832Z-El: 189W

Typical power consumption

- S7832Z-El: 180.4W

CPU

- Dual-core processor, ARM A53(1.6GHz) on all models

Memory

- eMMC: 8GB on all models

Dimensions (W x H x D) with package

- S7832Z-El: 66.5x 15 x 56.5cm

Environmental ranges

- Operating temperature: 0°C to 45°C
- Storage temperature: -40°C to 70°C
- Running Humidity: 10% to 90% (No condensation)
- Store Humidity: 5 to 95% (No condensation)
- Operating altitude: S7832Z-El: 0~5km

Dimensions (W x H x D) without package

- S7832Z-El: 44.2x 4.4 x 42cm

Temperature alarm

- Alarm threshold: 50°C

MTBF

- S7832Z-El: ≥ 90000 h (~10.3 Years)

Cooling [CFM] - Total maximum airflow

- S78532Z-El: 101.96

S7800 Software Specifications

HOHUNET implements a unified software platform, and the software capabilities supported by the devices are listed in the document ['HOS Software features'](#) .

Integrated Management Interface (CLI, SNMP, WEB, RMON ,RPC-API , Netconf,etc)

HOS Network Platform

Layer 2 switching

IPv4/IPv6 Unicast Routing

QoS

IP Multicast Snooping/Proxy

IPv4/IPv6 Multi cast Routing

VRRP

Multiprotocol Label Switching(MPLS)

Virtual Private LAN Service(VPLS)

Virtual Routing and Switching

Generalized Multiprotocol LabelSwitching(GMPLS)

IPv6 Tunneling and TransitionTechnologies

IP/MPLS OAM

Service management module

Fault Managemet (FM)

High Availability (HA)

Hardware and platform abstraction layer

Advanced integration Suite

Operating Systems TCP/IP Stacks

CENTEC swtich chip SDK

Linux , IPv4/Pv6 Dual Stack

Silicon in Pizza, Stacking or Chassis Configuration

Hardware layer

CENTEC Switch Chipset

CPU Subsystem

Cooling SubSystem

AC/DC DC/DC CLK

Environmental Management Subsystem

Logical Control Subunit

* All HOHUNET switches use a normalized software platform and image package file

* Unified software version iteration plan

* Unified user experience

Ordering Information

S7800 Series Switches

Items	Description
S7832Z-EI	100G Data Center Switch, with 32*100G QSFP28, Dual Power Supply Modules(C13), 4 hot-swappable Fan modules.

AC/DC Power Supplies use for all models

Items	Description
PSU-550-AC-AFO	S7800 Series 550W AC power supply (front-to-back airflow) Input: 100–240V AC; Output: 12V DC
PSU-550-DC-AFO	S7800 Series 550W DC power supply (front-to-back airflow) Input: 48V DC; Output: 48V DC

Software Licenses

Items	Description
Software License	MS, L3 enhance features software license key, Preinstalled
Software License	MA, MPLS features software license key
Software License	ST, Stacking feature software license key

Accessory of S7800 Series

Items	Front Mounting	Rear Mounting	Screw	Power Cord	Console (RS232 to RJ45)
S7832Z-EI:	2	2	14	2	1

About HOHUNET:

HOHUNET was established in 2015 as a technology-oriented company specializing in the independent development of switch products based on domestic chips. With the continuous evolution of chip technology, HOHUNET has launched a range of differentiated products based on this chip platform. Currently, the company's product line covers a range from 1G to 800G and can be used in scenarios such as enterprise networks, carrier networks, data centers, and AI computing power. Currently, the main cooperation model for the company is OEM/ODM, dedicated to providing customers with flexible and end-to-end customized products and technical consulting services. Becoming the most trusted business partner for customers has always been the company's mission and principle.

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