

SWH Fiber Optic Switch Parameters



Overview

A fiber-optic switch is a device used in fiber optics to route light from one or more input fibers to one or more output fibers.

Key Takeaways

The CTS SWH-3112 is a 12-port managed Gigabit fiber switch supporting 10/100/1000Base-T and 100/1000Base-X with fiber distances from 550m up to 120km depending on SFP modules. Key Specifications

Port Configuration:

- 8 x 10/100/1000Base-T RJ-45 ports (Ports 1-8)
- 4 x Gigabit combo ports (Ports 9-12) supporting 10/100/1000Base-T or 100/1000Base-X via SFP slots
- Fiber Support:
 - Compatible with multi-mode, single-mode, and bi-directional WDM fiber transceivers
 - Connection distances range from 550 meters to 20 km, extendable up to 120 km with appropriate SFPs
- Management Features:
 - Web GUI, Telnet/SSH CLI, and SNMP v1/v2c/v3 support
 - Auto-provisioning for mass deployment and dynamic network management
 - Port mirroring, RADIUS/TACACS+ authentication, and firmware upgrades via FTP, TFTP, or HTTP
- Network Protocols and Standards:

- IEEE 802.3, 802.3u, 802.3ab, 802.3z compliant
 - Supports IPv4 and IPv6 dual-stack operation, IPv6 packet forwarding, and MLD v1/v2 snooping
 - Loop prevention and automatic fiber speed adjustment to maintain network stability
- Environmental and Physical Parameters:
- Operating temperature: 0°C to 50°C
 - 1U rack-mountable, low-profile metal case (~10 inches / 26.5 cm width)
 - AC power input with fixed power module
- Additional Features:
- Safeguards against system crashes during firmware upgrades
 - Supports jumbo frames up to 9K bytes for high-performance applications
 - SNMP management allows remote monitoring and configuration of port states, system version, and other MIB entries
- The SWH-3112 is designed for FTTX and Metro Ethernet deployments, offering high-density fiber connectivity with robust management and long-distance fiber support, making it suitable for enterprise and service provider networks .

Article Content

SWH-3112

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CTS SWH-3112 SERIES USER MANUAL Pdf

To know the further information about the operation of Managed Switch, please refer to SWH-3112

SOSA-Aligned 3U R-VPX High Speed Ethernet Switch

The switch consists of a TSN and MACSec enabled 12-channel Ethernet switch for the seven control plane ports, four fiber optic

Ethernet Switch (SWH Series)

With efficient CLI and WEB management, SWH-3112 series Ethernet Switch provide an easy-to-use and

Fiber-optic Switches

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SWH-2009F Switch Manual | PDF | Network Switch | Duplex ...

Compared with shared 10Mbps or 100Mbps networks, this N-Way switch delivers a dedicated 10/100Mbps connection to every

Datasheet

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SWH-3112 Management Gigabit Ethernet Switch

It switches the traditional twisted-pair RJ-45 cable into the most popular fiber optics media including multi-mode, single-mode, bi

Fiber Optic Switches, Multiplexers, Demultiplexers

Fiber optic switches, multiplexers and demultiplexers block or route optical signals in a fiber optic network. Where switches simply

Optical Switches: Singlemode/Multimode Fiber Switch

Lfiber's optical switches (singlemode/multimode fiber switches) are micro-optic-based, opto-mechanical switches. These fiber

Fiber Optical Switch: Definition and Operation

A fiber optical switch, also known as a fiber channel switch or a SAN (Storage Area

FiberSwitch® Light switching for optical systems

Application & technology LEONI's fiber optical switches are mainly used for high demanding applications in telecommunications,

Fiber Optic Switch Guide: Definition, Connection Methods, Cabling ...

A practical B2B guide explaining what a fiber optic switch is, how to connect fiber optic cable to Ethernet switches, how

Gigabit SFP Network Switch Selection Guide for 2025

From a future-proofing perspective, gigabit SFP switches enable seamless upgrades to fiber optic networks as fiber

SWH-3112

Connection Technology System (CTS) SWH-3112 Enterprise switch is a Gigabit Ethernet 10/100/1000Base-T to 100/1000Base-X

Ethernet Switch (SWH Series)

CTS SWH series, Gigabit Ethernet Management Switch, is designed for small workgroups which offer connection from the backbone

Optical Switches

Optical Switches We lead the industry in optical switch technology, delivering the lowest insertion loss (0.2 dB), fastest switching

Switch

Add optical switching capability to your test system with Quantifi Photonics'' automated optical switches. The fast and reliable optical

Application Guide: Connecting Fiber-ready Network Switches

Terminate your fiber optic cabling with two LC-style connectors or purchase a pre-terminated fiber optic cable with two LC-style

Fiber-optic Prism Optical Switches

These component-style fiber-optic prism optical switches utilize moving prisms between fixed collimator pairs, which allows bi

Catalyst 6500 Series 10

This data sheet describes the benefits, specifications, and ordering information for the Catalyst 6500 Series 10- and

Essential Guide to Fiber Optic Network Switch Benefits

Discover how a fiber optic network switch boosts speed, security, and distance in enterprise networks with expert

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The part to order will be: FOS-1000-2-1x12-3A-1550-9/125-S Description: Rackmount Optical Switch, with two banks of 1x12 1550 nm

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SM Switch Nano Speed 1x2

The NanoSpeed™ Series 1x2 solid-state fiber optic switch connects optical channels by redirecting an incoming optical signal into a

ComEth4591a

The ComEth4591a is a high performance ruggedized dual plane 3U VPX Layer 2/3 Ethernet switch developed in alignment with the

SWH-3112

SWH-3112 Enterprise switch is a Gigabit Ethernet 10/100/1000Base-T to 100/1000Base-X switch with robust metal case. It switches

Fibre Channel switch

Fibre Channel switches may be deployed one at a time or in larger multi-switch configurations. SAN

SOSA-Aligned 3U R-VPX High Speed Ethernet Switch

Amphenol's 36-Channel 1G/10G/25G copper and fiber optic Ethernet switch in 3U VPX SOSA-aligned form factor conforms to SLT3

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Optical Switch-2025

OSW Optical Switch To meet diverse requirements in optical communication networks, Dimension Optical Switches

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Find a selection of fiber optic switches for use in fiber network and optical systems.

Fiber Switches – Fiber Savvy

A Fiber Switch is a telecommunication device that receives a message from any device connected to it with the objective of

Unlocking the Power of Fiber Switches: A Comprehensive Guide to ...

Fiber switches play an essential role in the architecture of the latest virtual data networks, providing high capacities,

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