

A Layer 3 switch with four optical ports



AI Overview

Layer 3 switches with 4 optical ports provide high-speed routing, advanced network management, and redundancy for enterprise or industrial networks. Key Features

Port Configuration: These switches typically combine multiple copper ports (Gigabit or 10G) with 4 optical uplink ports (SFP or SFP+) for high-speed fiber connections, enabling long-distance transmission and backbone integration .

Layer 3 Capabilities: They support IPv4/IPv6 routing, static and dynamic routing protocols such as RIP, OSPF, BGP, and multicast routing (IGMP, PIM), allowing deployment as core, aggregation, or distribution switches in enterprise networks .

Redundancy and Reliability: Many models feature dual redundant power supplies, hot-swappable components, and stacking or virtualization technology to maintain uninterrupted traffic during failures .

Security and QoS: Advanced security features include ARP detection, IP Source Guard, DHCP snooping, MAC-based port security, and ACLs. QoS mechanisms like SP, WRR, and SP+WRR ensure prioritized traffic handling for VoIP, video streaming, and multicast applications .

PoE Support: Some switches, like the PLANET GS-6311-24PL4X, provide PoE+ on copper ports with high power budgets (up to 720W), suitable for powering IP cameras, VoIP phones, and other devices .

Management Options: These switches can be managed via Web GUI, CLI, SNMP, Telnet, and support VLANs, LACP, IGMP snooping, and traffic monitoring for flexible network administration .

Performance: High switching capacity and low latency are common, with some models offering wire-speed 10GbE uplinks, 128Gbps switching fabric, and support for industrial-grade environments with wide temperature ranges and fanless designs .

Example Models

- D-Link DXS-F3400-28SC: 24 x 10G SFP + 4 x 100G QSFP28, supports L3 routing, BGP, OSPF, VRRP, and L3 multicasting .
- Ruijie RG-NBS5200-24GT4XS-P: 24 Gigabit ports with 4 SFP+ uplinks, PoE support, and enterprise-class security .
- PLANET GS-6311-24PL4X: 24 copper ports with 4 SFP+ fib...

Article Content

Layers of OSI Model

The OSI Model is a conceptual framework created by the International Organization for Standardization (ISO) to describe how data is transmitted across a network using a structured seven

H3C 24-Port Switch Buyer's Guide for SMB & Enterprise

Compare H3C 24-port switch series (S1850, S5130S-EI, S5560) by PoE+, Layer 3 features, IRF2 stacking, and energy efficiency. See specs, use cases, and sourcing options.

NVIDIA Mellanox MMAIB00-B150D Data Center Optical Transceiver

Get exclusive access to NVIDIA Mellanox MMAIB00-B150D Data Center Optical Transceiver Technical Solution details at Hong Kong Starsurge Group Co., Limited, a renowned

RG-S5310-48GT4XS-E 48-Port GE Layer 3 Managed Access Switch,

Full-gigabit access switch for large-sized enterprise and campus LANs, with four 10G uplink optical ports for high-speed data transmission 48 x 1000 Mbps Ethernet ports with auto-negotiation, providing high

Broadband 32 × 32 Strictly-Nonblocking Optical Switch on a Multi-Layer ...

In this paper, a large-scale 32 × 32 S&S optical switch on a multi-layer Si₃N₄-on-SOI platform is reported. The optical switch chip incorporates 1984 broadband thermo-optic Mach

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24-port Gigabit 4 optical ports Gigabit Layer 3 managed switch static ...

WS3028GM Layer 3 Gigabit Managed Switch supports 24 Gigabit Ethernet ports, 4 Gigabit SFP optical ports and 1 management port. The switch provides advanced network management features:

48-Port Gigabit SFP+ 4-Port 10G SFP+ L3 Managed

It is full fiber stackable routing switch with fixed, built-in 10GbE uplink ports. The fully managed switch provides high availability, scalability, security, energy efficiency,

10G Optical Router Switch Buyer's Guide

Compare managed L3 10G SFP+ switches, understand fiber vs. copper trade-offs, evaluate AI/data center requirements, and select based on port count, power efficiency, and future scalability.

MS Layer 3 Switching and Routing

Layer 3 routing capabilities are available on most Cisco Meraki switches. This allows the switches to route traffic between VLANs in a campus network without the need for an additional layer

gigabit managed switch with warranty online manufacture

LS-S5560S-52S-EI H3C 48-port Gigabit electric 4-port Gigabit optical manageable Layer 3 core switch H3C S5560S-EI Series Enhanced Gigabit Switches H3C S5560S-EI Switch Series is robust

Devices used in each layer of TCP/IP model

Prerequisite - TCP/IP Model, Network Devices 1. Physical Layer - Physical layer of TCP/IP model is responsible for physical connectivity of two devices. Some of the devices used in Physical

24 x 10G SFP + 4 x 100G QSFP28 Optical L3 Manage

This switch features a modular power supply design for a high availability architecture. The hot-swappable design means that power supplies can be

Network Devices

Layer 2 Devices: Data Link Layer These devices work with MAC Addresses (Physical Addresses). They are smarter than hubs. 4. Switch A switch is a high-speed networking device that

TRENDnet 6-Port 2.5G GaN Power PoE++ Switch with 10G SFP+ Ports

TRENDnet 6-Port 2.5G GaN Power PoE++ Switch with 10G SFP+ Ports (240W), TPE-BG5062, 4 x 2.5G PoE++ Ports, 2 x 10G SFP+ Ports, 240W, 60Gbps, NDAA TAA Compliant for Government use,

24-Port Layer 3 Stackable 10 Gigabit Fiber Managed

The DXS-3400 Series switches feature a modular fan and power supply design for a high availability architecture. The hot-swappable design means that fans and

Cisco Catalyst 3750 Series Switches Data Sheet

Availability: Uninterrupted Performance at Layer 2 and Layer 3 The Cisco Catalyst 3750 Series increases availability for stackable switches. Each switch can operate as both a master

NVIDIA Mellanox MFS1S50-H010E AOC Active Optical Cable in Practice

Discover the details of NVIDIA Mellanox MFS1S50-H010E AOC Active Optical Cable in Practice at Hong Kong Starsurge Group Co., Limited, a leading supplier in China for Optical

NVIDIA Mellanox MFS1S50-H010E AOC Active Optical Cable

3. Role & Key Features of the NVIDIA Mellanox MFS1S50-H010E in the Solution Within this architecture, the NVIDIA Mellanox MFS1S50-H010E functions as the physical-layer anchor, bridging

Core Switch Price

Factory Price Managed Route L3 8 Port 16 RJ45/SFP with 4 10G Gigabit Uplink Port Industrial Layer 3 Data Center IP40 Core Switch \$290 MOQ: 2 pieces Shenzhen Qi Fang Industrial

Layer 3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP

The four SFP+ slots built in the SGS-6341-24P4X boasts a high-performance switch architecture that is capable of providing non-blocking switch fabric and wire-speed throughput as high as 128Gbps,

GS-6311-24PL4X

The four SFP+ ports built in the GS-6311-24PL4X boast a high-performance switch architecture that is capable of providing non-blocking switch fabric and wire

48 Ports Layer 3 managed POE switch with 4 Ports

The PS54804TFM series represents a robust collection of Layer 3 managed PoE switches featuring 48 Gigabit LAN ports alongside 4 10GbE uplink SFP+ optical

HP Networking Switches

HPE 6100 48G 4SFP+ Switch - 48 Ports - 3 Layer Supported - Modular - 44.20 W Power Consumption - Twisted Pair, Optical Fiber - 1U - Rack-mountable, Wall Mountable - Lifetime Limited Warranty48

24-port Gigabit 4*10G SFP+ optical ports Layer 3 managed switch link ...

Based on Advanced security features and advanced quality of service (QoS), it can be used as a core distribution or access layer switch with high port density, and easy to manage.

Contact Us

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