

Optical network switch with 5 network ports and 1 optical port



Overview

Discover fiber switches designed for reliable network connectivity. Browse 10G, 2.5G, and gigabit options to expand your bandwidth.

Key Takeaways

A 5-port network switch with 1 optical port typically includes 4 copper Ethernet ports and 1 fiber port, supporting both Fast Ethernet and Multi-Gigabit speeds for flexible network deployment.

Key Options and Specifications

- Intellinet 5-Port Multi-Gigabit Switch
- Ports: 4 x 2.5GBASE-T Ethernet, 1 x 10G SFP+ optical uplink
- Use Case: Ideal for high-speed Wi-Fi 6 access points, servers, NAS, or NVRs
- Features: PoE+ support on copper ports, backward compatibility with 1G SFP modules, plug-and-play installation
- Advantages: Supports future 10G upgrades without replacing the switch, suitable for small to medium enterprise networks
- LevelOne FEU-0511 5-Port Fast Ethernet Switch
- Ports: 4 x 10/100BASE-TX RJ45, 1 x 100BASE-FX SC multi-mode fiber
- Use Case: Small offices, industrial sites, or remote locations requiring copper-to-fiber bridging

- Features: Auto-negotiation, auto-MDI/MDIX, store-and-forward switching, IEEE 802.3x flow control
- Advantages: Extends LAN reach up to 2 km over fiber, simple plug-and-play design with front-panel LEDs for monitoring
- EKS EL100-4U Industrial 5-Port Switch
- Ports: 4 x RJ45, 1 x single-mode or multi-mode fiber (ST, SC, or E2000 connectors)
- Use Case: Industrial automation, DIN rail or 19" rack mounting
- Features: Auto-negotiation, MDX/MDIX, extended temperature range, redundant power supply
- Advantages: Compact design for space-constrained environments, robust for industrial conditions

Considerations When Choosing a Switch

- Port Speed: Decide between Fast Ethernet (100 Mbps), Gigabit (1 Gbps), or Multi-Gigabit (2.5–10 Gbps) depending on network traffic and connected devices.
- Fiber Type: Multi-mode fiber is suitable for short distances (up to 2 km), while single-mode fiber supports longer distances.
- Connector Type: Common fiber connectors include SC, ST, and E2000; ensure compatibility with existing fiber infrastructure.
- Managed vs Unmanaged: Unmanaged switches are plug-and-play, while managed switches offer VLANs, QoS, and monitoring features.
- Deployment Environment: Industrial switches offer extended temperature ranges and ruggedized designs for harsh environments.

Summary

A 5-port switch with 1 optical port provides a flexible solution for bridging copper and fiber networks. Options range from high-speed Multi-Gigabit switches for enterprise Wi-Fi and server connections to industrial Fast Ethernet switches for remote or harsh environments. Key factors include port speed, fiber type, connector compatibility, and whether management features are required. Selecting the right switch ensures reliable data transmission, future-proofing, and seamless integration into existing network infrastructure.

Article Content

Fiber Optical Switches

The AN-205-X3X1 is an Optical fiber switch that offers 5 port 10/100Base-FX. It supports both Single optical fiber and dual optical

Amazon : Fiber Optic Network Switch

Premium aluminum shell ensures rapid cooling for stable, lag-free network.

FEU-0511 5-Port Fast Ethernet Switch, 4 x 10/100BASE

As a dual-media solution, the FEU-0511 transparently converts electrical Ethernet signals to optical fiber

Fiber Optic Network Switches

By combining copper Ethernet ports with fiber optic interfaces, VERSITRON switches make it possible to build, expand, and

SEL-2725 Five-Port Ethernet Switch | Schweitzer Engineering

The SEL-2725 is an unmanaged five-port switch and copper-to-fiber-optic media converter. Single- or multimode fiber optics are

Amazon : Fiber Switches

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Remote I/O, ADAM-6521, Switch with 1 Multi-Mode

ADAM-6521-BE 5-port Switch w/1 Multi-Mode Fiber-Optic Port Provides 4 x 10/100 Mbps Ethernet ports

5 port unmanaged Ethernet switches singlemode, EL100-4U

Compact 5 port unmanaged Ethernet Switch for industrial automation. 4x RJ45 and 1x singlemode (MM) fiber optic port with ST, SC

OmniConverter® Compact Fiber Switches

OmniConverter compact ethernet switches feature one or two fiber ports and up to eight 10/100/1000

Unmanaged 4-Port Fiber Optic Ethernet Switch

Supporting distances up to 80km, the TC3705 10/100Base-T Ethernet Fiber Optic Switch provides one multimode or

Best 5-Port Ethernet Switch in 2026: Tested and Reviewed

The Tenda SE105 5-Port 2.5G Unmanaged Ethernet Switch is a high-speed and reliable

Amazon : Fiber Optic Network Switch

Estink SFP Ethernet Fiber Optic Switch, 1000m Ethernet Fiber Optic Transceiver, 4 Optical Ports 2 Electrical Ports, 120km, with LED

Amazon : Fiber Network Switch

6-Port Hardened Industrial Gigabit PoE+ DIN-Rail Fiber Network Switch 4 x Gigabit PoE+ Ports 2 x 1.25G SFP Fiber Ports 120W for

What is an Optical Switch?

An optical switch is a multi-port network bridge, which connects multiple optic fibers to each other and controls data

Optical Switches: Singlemode/Multimode Fiber Switch

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

Fast, Gigabit, and 10 Gigabit Ethernet Switches with SFP+ Modules

Managed and unmanaged Layer 2 and Layer 3 fiber optic Ethernet switches. With 10G SFP+ fiber optic transceiver modules, they

What Is an All-Optical Ethernet Switch?

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal

Hanutech Unmanaged 6 Port Fiber Switch 10/100Mbps,6 Fiber Port

Our ESW-628 optical fibre switch has 2 Fiber Optic Duplex ports 100 Base-FX and 6 X 10/100Base-TX copper RJ-45. Works Best

SFP Network Switches | SFP Managed Port Switches

SFP network switches offer an "All-Fiber" configuration. SFP fiber switches extend the fiber optic network to multiple remote locations

24 Port 4 Gigabit Optical Network Enterprise Web Switch Managed

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OmniConverter® Compact Fiber Switches

OmniConverter compact ethernet switches feature one or two fiber ports and up to eight 10/100/1000 copper ports for fiber distance

WIFI 1 Gigabit Optical Port + 4 RJ45 Ports Gigabit PoE Unmanaged ...

The 1-optical 4-electric switch is an industrial-grade unmanaged PoE Ethernet switch. This product provides 1 Gigabit optical port, 4

What is Differences Between Switch Optical Ports and Ethernet Ports

Ethernet speeds up to 1000M can be supported by Cat5 or Cat6 cables, while 10G networks require cables of at least

MCSESM063F2CU0

Schneider Electric USA. MCSESM063F2CU0 - network switch, Modicon Networking, managed, 4 ports for copper with 2 port for

Optical Switches: Applications and Requirements

Explore the applications of optical switches in optical path provisioning, protection switching, packet networks, and modulation,

POLATIS series 7000 384x384 switch

The POLATIS Series 7000n Network Optical Switch is the largest-capacity, highest-density, highest-performance and most reliable

Ethernet Switches | EKS

Managed and unmanaged Ethernet switches in combination with fiber optic These Ethernet switches are meticulously crafted for

NETGEAR 5-Port Gigabit Ethernet Unmanaged Network Switch

The NETGEAR 5 Port Gigabit unmanaged Switch provides an easy, reliable, and affordable way to expand your network

Network Switches | Officeworks

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Unmanaged 4-Port Fiber Optic Ethernet Switch

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Fiber Optical Switches – Secure And Reliable Solutions

Discover Fibersystem's fiber optical switches for high-speed, secure, and reliable data management. Contact us to learn how they fit

Fiber Ethernet Network Switches

Port Density: Modern fiber optic switches come equipped with multiple ports (4 port, 6 port,

Optical Circuit Switch | Coherent

The 300x300 port Optical Circuit Switch is based field-proven and ultrareliable digital liquid-crystal platform from Coherent, which

Amazon : 5 Port Switch

Shop quality Ethernet switches featuring auto-negotiation and energy-efficient technology. Ideal for homes, offices, and creative

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

