

## Article Overview

Several enterprise switches offer 2 optical ports, combining fiber connectivity with multiple Ethernet ports for flexible, high-performance networking.

## Options for Enterprise Switches with 2 Optical Ports

1. **UOTEK UT-6406GM Series** The UT-6406GM is a full-gigabit managed industrial Ethernet switch featuring 2 Gigabit optical fiber ports alongside 4 Gigabit electrical ports. It supports advanced Layer 2 features such as VLAN, IGMP Snooping, QoS, STP/RSTP/MSTP, and ACL access control. Management options include Console, Telnet, Web, and SNMP, making it suitable for industrial applications, factory automation, intelligent transportation, and video surveillance . 2. **MikroTik Switches** MikroTik offers several switches with 2 SFP+ cages in compact 1U rackmount or desktop cases. For example, a 24-port Gigabit switch with 2 SFP+ cages supports dual boot (RouterOS or SwitchOS) and PoE output, providing flexible deployment for server rooms or small enterprise networks . These switches are ideal for setups requiring both copper and fiber connectivity. 3. **Alcatel-Lucent Enterprise OmniSwitch 6360 / 6560E** Alcatel-Lucent Enterprise provides stackable Gigabit Ethernet switches with 2 or more SFP ports for fiber uplinks. These switches support IPv4/IPv6 static routing, QoS, and zero-touch provisioning, making them suitable for campus networks, office environments, and edge access layers . They combine enterprise-grade reliability with multi-gigabit performance.

## Considerations When Choosing a Switch

- o **Port Type and Speed:** Ensure the optical ports match your network requirements (e.g., SFP for 1G, SFP+ for 10G).
- o **Layer 2/3 Features:** Managed switches provide VLANs, QoS, and routing capabilities for enterprise networks.
- o **PoE Support:** If powering devices like access points or cameras, PoE-enabled switches are beneficial.
- o **Deployment Environment:** Industrial switches are hardened for extreme conditions, while standard enterprise switches are optimized for office or data center environments.
- o **Hybrid vs. All-Optical:** Hybrid switches combine copper and fiber ports, while all-optical switches eliminate electrical conversion for lower latency and higher reliability in fiber-only networks .

## Summary

For an enterprise switch with 2 optical ports, options include UOTEK UT-6406GM for industrial applications, MikroTik 24-port switches with 2 SFP+ cages for flexible small-to-medium networks, and Alcatel-Lucent OmniSwitch models for campus or office deployments. Consider your network speed, management features, PoE needs, and environmental requirements when selecting the best switch for your setup.



## Enterprise switch with 2 optical ports

**12-Port Fiber Aggregate Switch** The EnGenius ECS5512F enterprise cloud-managed switch delivers high-performance fiber

**2.5G L2 MULTI-G SWITCH** The Edgecore ECS4125-10T switch is a 2.5 Gigabit Ethernet access switch

**MDS 9706 Multilayer Director** 2 to 32 Gbps autosensing FC port types 6 Tbps Fibre Channel switching MDS NX-OS The Cisco MDS

**RG-SF2920-16GT2SFP 16-Port GE All-Optical Switch**, 2 &#215; Gigabit Uplink Optical Ports Various port combinations, rate increase,

Core switching powerhouses with speeds up to 100 Gbps and high-capacity PoE+++ output for High

CloudEngine S5755-H series high-quality multi-rate switches are Huawei's next-generation high-end

Industrial fiber optic Ethernet switches are designed to deliver stable, long-distance, and interference-resistant network connectivity

An 8-port, Layer 2 switch made for 10G SFP+ connections.

NETGEAR Insight is the easy-to-use solution for delivering centralized remote management of networks

A lot of customers in the purchase of industrial Ethernet switches will ask how many optical and electrical ports of

A 24-port, Layer 3 switch with 2.5 GbE PoE+ output. Note. These switches are not compatible with the PoE++ requirements of the

An ultra-fast enterprise switch with extra processing power due to the CCR series CPU & the best price per 100 Gigabit port on the

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Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost



## Enterprise switch with 2 optical ports

The CloudEngine S5735-S-V2 series switches are built on a new-generation high-performance hardware platform and Huawei's

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