

Industrial Switches with Multimode 4 Fiber Ports and 6 Ethernet Ports



Overview

SCALANCE network components form the basis of communication networks in manufacturing and process automation.

Key Takeaways

Industrial Ethernet switches with 4 multimode fiber ports and 6 Ethernet ports are available in both managed and unmanaged configurations, designed for rugged industrial environments. Key Features



Port Configuration: These switches typically offer 4 multimode fiber ports (100BaseFX or 1000BaseFX) and 6 Ethernet ports (10/100/1000Base-T), providing flexible connectivity for both fiber and copper networks . **Industrial-Grade Design:** They are built to withstand harsh conditions, including wide temperature ranges (-40°C to 60°C), vibration, and electromagnetic interference. Many models feature IP30-rated enclosures, DIN-rail or panel mounting, and dual redundant power inputs for reliability . **Operation Type:** Options include unmanaged plug-and-play switches for simple deployment and fully managed switches for advanced network control, VLANs, and monitoring . **Fiber Compatibility:** Multimode fiber support ensures high-speed, noise-immune communication over distances up to 4 km, with common connector types like ST, SC, or SFP modules . Some switches also support Bidirectional (BiDi) technology for efficient fiber utilization . **Performance:** Industrial switches provide full-duplex and half-duplex operation, non-blocking wire-speed forwarding, and low-latency communication suitable for real-time industrial applications such as intelligent transportation, rail transit, power systems, and manufacturing automation . **Certifications and Reliability:** Many switches comply with IEEE 802.3 standards, CE, FCC, RoHS, and some are UL Class I, Division 2 certified for hazardous environments. They often feature surge and spike protection and boast MTBF over 1 million hours .

Example Models

- Sixnet SL-6ES-4ST: Unmanaged 6-port switch with 4 RJ45 ports and 2 multimode 100BaseFX fiber ports, ST connectors, IP30-rated case, DIN-rail mounting, and dual redundant power inputs .
- ONV-IPS33064F: Unmanaged gigabit switch with 4 RJ45 ports and 2 SFP fiber ports, supports full line-rate forwarding, dual DC power input, and robust industrial field adaptability .

Applications

These switches are ideal for industrial automation, energy, transportation, mining, and smart factory networks, where reliable fiber and Ethernet connectivity is required in challenging environments . By selecting a switch with the appropriate port configuration, fiber type, and industrial certifications, you can ensure a stable, high-performance network for demanding industrial applications.

Article Content

Industrial Unmanaged Ethernet Switch: 6 ports (PN# SE3-SW6U-2C1

STRIDE industrial unmanaged Ethernet switch, 6 ports, (4) Ethernet 10/100Base-T (RJ45) and (2) multi-mode SC 100FX fiber port

Industrial Network Switches | Industrial Ethernet Switches

Our Industrial network switches offer Power over Ethernet (PoE) support as well as multiple fiber ports that can be connected to

N-Tron® 106FX2-SC Unmanaged 6-port Industrial

The N-Tron® Unmanaged 6-port Industrial Ethernet Switch meets data gathering, control and Ethernet I/O

Fiber Optic Network Switches | Ethernet to Fiber

Our fiber Ethernet switches are available in managed and unmanaged configurations, with options for

MikroTik · Switches

A compact 1U 400G switch built for AI clusters, storage fabrics, and high-speed aggregation, featuring four 400G QSFP56-DD ports,

12-Port Gigabit Fiber Metro Ethernet Switch

The DGS-1210ME Series Metro Ethernet Switches feature a variety of port configurations, including

Industrial Ethernet Switches

Our managed Ethernet switches, fiber switches, and router switches provide fast Ethernet and gigabit combo ports as well as

Ethernet Switches | EKS

These Ethernet switches are meticulously crafted for industrial applications, offering a robust housing, compact design, and

SCALANCE

SCALANCE network components form the basis of communication networks in manufacturing and process automation. Specially

Cisco Switch Selector

These entry-level, noiseless Gigabit Ethernet switches provide enterprise-class Layer 2 switching with basic security, quality of

Unmanaged Industrial Ethernet Switches | Rugged DIN Rail Switch

Rugged, and with no configuration required, Perle has over 400 models of Unmanaged Industrial Ethernet Switches with a vast array

Industrial Ethernet Switches | AutomationDirect

Unmanaged industrial Ethernet switches provide low-cost network connections with options supporting

Industrial Ethernet Switches | Phoenix Contact

Our Industrial Ethernet Switch portfolio comprises Managed and Unmanaged Switches with Gigabit, PoE,

Industrial Ethernet Switches

Available in all-copper, all-fiber, or mixed-port configurations, these switches can be stacked and used for both access and

Industrial 8 Ports Gigabit Ethernet Switch Fiber Switch with ...

Overview This is an unmanaged industrial network switch with 8 ports 10/100/1000Base-TX RJ45 and 2 ports 100/1000Base-X SFP.

Fiber Optic Network Switches | Ethernet to Fiber

Our fiber Ethernet switches are available in managed and unmanaged configurations, with options for

MikroTik · Switches

A compact 1U 400G switch built for AI clusters, storage fabrics, and high-speed aggregation, featuring four 400G QSFP56-DD ports,

12-Port Gigabit Fiber Metro Ethernet Switch

The DGS-1210ME Series Metro Ethernet Switches feature a variety of port configurations, including

Industrial Ethernet Switches

Our managed Ethernet switches, fiber switches, and router switches provide fast Ethernet and gigabit combo ports as well as

Ethernet Switches | EKS

These Ethernet switches are meticulously crafted for industrial applications, offering a robust housing, compact design, and

SCALANCE

SCALANCE network components form the basis of communication networks in manufacturing and process automation. Specially

Industrial Unmanaged Ethernet Switch: 6 ports (PN# SE3-SW6U-2C1

STRIDE industrial unmanaged Ethernet switch, 6 ports, (4) Ethernet 10/100Base-T (RJ45) and (2) multi-mode SC 100FX fiber port

Industrial Network Switches | Industrial Ethernet Switches

Our Industrial network switches offer Power over Ethernet (PoE) support as well as multiple fiber ports that can be connected to

N-Tron® 106FX2-SC Unmanaged 6-port Industrial

The N-Tron® Unmanaged 6-port Industrial Ethernet Switch meets data gathering, control and Ethernet I/O

Industrial Ethernet Switches | Phoenix Contact

Our Industrial Ethernet Switch portfolio comprises Managed and Unmanaged Switches with Gigabit, PoE,

Industrial Unmanaged Ethernet Switch: 6 ports (PN# SE3-SW6U-2C1

STRIDE industrial unmanaged Ethernet switch, 6 ports, (4) Ethernet 10/100Base-T (RJ45) and (2) multi-mode SC 100FX fiber port

Industrial Network Switches | Industrial Ethernet Switches

Our Industrial network switches offer Power over Ethernet (PoE) support as well as multiple fiber ports that can be connected to

N-Tron® 106FX2-SC Unmanaged 6-port Industrial

The N-Tron® Unmanaged 6-port Industrial Ethernet Switch meets data gathering, control and Ethernet I/O

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://alfa-pro.co.za>

Technical inquiry: <https://alfa-pro.co.za/contact.html>

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

