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

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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.

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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

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