

Carrier backbone network industrial-grade optical switch SFP



Overview

This advanced hardened PoE fiber switch integrates 8×10/100/1000Base-T RJ45 ports with 802.3at PoE+ capability, 4×1000Base-X SFP fiber optic slots, and 2×10G SFP+ high-speed uplink ports, delivering exceptional connectivity flexibility for modern network. The LNK-IMC2X4S8GP Series represents a robust industrial-grade Ethernet switching solution engineered for demanding network environments. 5G/10GBASE-X SFP+ fiber optic uplink ports that provide long-distance, high-speed and stable data transmission to a remote core network. Power Requirement: 9-48V DC, 4A max. Note: ALL Industrial Switches do NOT include a power supply. Carrier networks demand optical transceivers that combine reliability, standards-compliance, long lifecycle support and strict interoperability with routers, switches and DWDM systems. This reference lists vetted, carrier-grade manufacturers you should consider during procurement. 3V power supplies and are intended for single mode or multimode fiber, operating at a nominal wavelength. The IES5100-24FS features 16x 1G SFP ports, 8 x 1Gb Combo ports and 4 x 10G SFP+ ports, which is designed especially for a broad spectrum of industrial and extended enterprise connectivity needs.

Article Content

Industrial-Grade 25G SFP28 Transceiver for Enterprise and Telecom Backbone

Explore the LINK-PP LS-SM3125-10I industrial-grade SFP28 transceiver, delivering 25 Gb/s over 10 km single-mode fibre at 1310 nm, with DOM and wide-temperature support for

Understanding 1000BASE-LX SFP for Modern Networks

1000BASE-LX SFP enables reliable 1 Gbps fiber connections up to 10 km, supporting both single-mode and multimode fiber for modern network devices.

Carrier-grade 10G SFP+ & 8-Port PoE Fiber Switch

The 10G SFP+ uplink ports of PoE fiber switch ensure high-bandwidth backbone connectivity for bandwidth-intensive applications and future network expansion.

Is Huawei Carrier Ethernet Switch the Backbone of

Its ability to marry speed with bulletproof reliability answers the trillion-dollar question: Yes, carrier-grade networks can have it all—but only if

Carrier-grade 10G SFP+ & 8-Port PoE Fiber Switch

Ideal for surveillance systems, industrial automation, transportation networks, and smart city applications, this versatile PoE fiber switching solution offers reliable

Industrial 4/8-Port Multi-Gigabit (802.3bt PoE) + 2/4-Port 10G SFP+ ...

Featuring a 10Gbps uplink, the IGS-1000 Series is suitable for connecting to an industrial backbone or high-capacity servers. Operating flawlessly across an extensive temperature range, it guarantees a

Industrial SFP Transceiver | Industrial & Telecom

Industrial SFP Transceiver | CTC Union's goal is to provide reliable, temperature resistant and rugged designs for harsh environments. We offer a full spectrum of

Microsoft Word

Having high end active L1 optical network is now within reach for data centers and the enterprise market. With DWDM technology, data centers can implement a carrier grade optical backbone infrastructure

HGW-802SM-BT Managed PoE BT Industrial Switch

The HGW-802SM-BT is a 10-port Gigabit Ethernet Managed Switch with 8-port 10/100/1000Base-T (X) and 2-port 100/1000Base-X SFP slot for optical fiber

H3C Products Catalogue

The H3C S5170-EI switch adopts the industry-leading ASIC technology to develop a new generation of high-performance, high-port density, high-security and easy-to-install intelligent network-managed

Carrier-Grade Sfp Module Manufacturers — A Telco Procurement

Carrier networks demand optical transceivers that combine reliability, standards-compliance, long lifecycle support and strict interoperability with routers, switches and DWDM systems. This reference

The Essential Guide to SFP-10G-LR Optical Transceivers

The SFP-10G-LR optical transceiver continues to be a vital workhorse for cost-effective, high-performance connections over distances up to 10km. Its

SFP in Telecom: Meaning, Types, Uses, and Selection Guide

Whether you are building enterprise backbone networks, deploying fiber-to-the-home (FTTH) services, or scaling carrier-grade infrastructure, SFP modules play a critical role in

IGS-1000-8T4X Industrial 10G SFP Switch | Planet

Featuring Plug and Play and 10G SFP+ uplink ports, PLANET IGS-1000-8T4X Industrial-grade, DIN-rail type Unmanaged Gigabit Ethernet Switch is perfect for

We are Nokia | Nokia

We invent a new type of optical fiber, Non-Zero Dispersion Fiber (NZDF), that becomes widely deployed in intercontinental and long-haul terrestrial networks.

Optical Transceiver Market Size, Share, and Trends Analysis 2032

The global Optical Transceiver market size was estimated at USD 13.08 Billion in 2024 and is estimated to grow at a CAGR of 15.41% from 2025 to 2032.

FIBER OPTICS FOR INDUSTRIAL APPLICATIONS

FIBER OPTICS FOR INDUSTRIAL APPLICATIONS The Industrial Internet, also known as Industry 4.0, is bringing greater speed and efficiency to industries such as factory automation, rail transportation,

IGS-1000-8T4X Industrial 10G SFP Switch | Planet Technology

Featuring a 10Gbps uplink, the IGS-1000-8T4X is suitable for connecting to an industrial backbone or high-capacity servers. Operating flawlessly across an extensive temperature range, it guarantees a

Fiber SFPs Explained: Types, Speeds, and Buying Guide

Fiber SFPs (Small Form-factor Pluggable transceivers) are compact, standardized optical modules that enable network devices—such as switches, routers, and servers—to transmit data over fiber optic

MikroTik · Products

MikroTik makes networking hardware and software, which is used in nearly all countries of the world. Our mission is to make existing Internet technologies

Gigabit Ethernet

1000BASE-T-capable network interface card made by Intel, which connects to a computer via PCI-X There are five physical layer standards for Gigabit Ethernet

IES5100-24FS, 24-Port Gigabit Ethernet L2+ Managed

The IES5100-24FS features 16x 1G SFP ports, 8 x 1Gb Combo ports and 4 x 10G

Industrial GbE Fiber SFP Optical Transceiver Module

Compatibility in your network is everything, and this industrial SFP Transceiver Module delivers. Use it with any Intellinet SFP equipped network switch or any

Industrial Gigabit Fiber SFP Optical Transceiver Module

Industrial SFP Module - handles extreme temps, MSA compatible The Small Form Factor Pluggable (SFP) Transceiver from Intellinet Network Solutions provides a

Industrial 4/8-Port Multi-Gigabit (802.3bt PoE) + 2/4-Port 10G SFP+ ...

Industrial 4/8-Port Multi-Gigabit (802.3bt PoE) + 2/4-Port 10G SFP+ Ethernet Switch
Reliable Industrial Ethernet Networks with 10G Fiber, and Plug and Play Configuration
Featuring Plug and Play and

SFP 10G LR: High-Speed Long-Reach Fiber Transceivers

Overall, SFP 10G LR modules provide a versatile, cost-efficient, and standardized solution for upgrading and maintaining 10G fiber networks, making them a preferred choice for enterprises, carriers, and

Carrier-grade Flag Products-H3C

It represents a new generation of core routers designed for carrier-grade applications and is utilized in carrier IPBB, MAN core, DCI backbone, and other key locations. H3C S12500R is a switching router

Industrial Managed 16-Port Optical Fiber Switch with

The GAOTek industrial managed 16-port optical fiber switch ensures stable and reliable Ethernet transmission, perfect for harsh environments like industrial

SFP Types Explained: 1G Modules, Distances & Selection

See 1G SFP types—SX/LX/EX/ZX, BiDi, CWDM/DWDM, and 1000BASE-T—with distances, wavelength pairs, temp grades, and

Contact Us

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