

Industrial Hubs and Switches



Article Overview

Industrial hubs and switches are essential networking devices that connect multiple Ethernet-enabled devices in industrial environments, enabling efficient data communication and automation control.

Overview and Functionality

Industrial hubs are devices that connect several Ethernet-enabled devices, such as computers and PLCs, allowing them to share data within a network. They provide a cost-efficient solution for expanding networks quickly, often including surge protection and multiple accessible ports for rapid deployment. Industrial switches, on the other hand, are more advanced devices that manage data flow by transmitting network packets only to the intended devices, improving efficiency and reducing network congestion. Switches can be managed or unmanaged, with managed switches offering monitoring, control, and redundancy features for critical industrial applications.

Key Features

Industrial switches are designed to operate in harsh environments, with features such as:

- Environmental resistance: Tolerance to temperature variations, vibration, dust, and water.
- Reliability: Continuous operation with minimal downtime.
- Redundancy: Dual power supplies and network redundancy to maintain operations during failures.

Article Content

USB Hubs | USB-C, Powered & Industrial Hub

Explore Newnex's USB hubs, including USB-C hubs and powered USB hubs, supporting up to 10Gbps speeds. Rugged, reliable,

Industrial USB Hubs

StarTech Industrial USB Hubs expand the USB connectivity of your organization's USB enabled host devices, by connecting

Edimax Pro Industrial Managed Switches

The Edimax Pro industrial Gigabit web managed switch comes with PoE+ ports and SFP slots for high-speed Gigabit, long-range

Industrial Ethernet Switches | WAGO

Industrial Switches WAGO's switch portfolio provides scalable Ethernet network infrastructure with excellent electrical and

Unmanaged Switches

Moxa has a large portfolio of industrial unmanaged switches that have been specifically designed for industrial Ethernet

Basics of Industrial ethernet, bus, switches, routers

When you talk about office and home networking, typically you're talking about Ethernet-based networks—computers,

W4S1-05D Industrial Switching Hub/Features

Industrial Switching Hub Easy and reliable way to adopt IoT for production sites

W4S1 Industrial Switching Hubs

Provides the environmental resistance and functionality required in factory automation built around

Industrial Ethernet Switches | Industrial Network Switch | Perle

Rugged Industrial Ethernet Switches with PoE, 5-10 ports, 10/100/1000Base-T and fiber support. Built to withstand -40°C to 75°C,

Industrial Switches | Industrial Ethernet Switches | Antaira

Various markets utilize our industrial Ethernet switches, including automation processes, smart transportation systems, security

Industrial Ethernet Switches

Built to endure the demanding conditions of factories, transportation infrastructure, grid substations, and

Switches, Hubs | Networking Solutions | DigiKey

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Introduction to Network Switches for Industrial Applications

Introduction to Network Switches for Industrial Applications Industrial network switches connect automation

Ethernet Switches

Moxa provides a wide range of industrial Ethernet switches that feature industrial-grade reliability, network

What Are Industrial PoE Switching Hubs? Mechanisms, Standards,

This article introduces industrial PoE switching hubs—how they work, the standards involved, and how to choose

Industrial Ethernet

Industrial Ethernet PLANET Industrial Ethernet equipment is compliant with various industrial protocols and ITS certifications such as

Industrial Ethernet Switches | Phoenix Contact

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

Industrial-Switches | Automatisierungstechnik | Produkte | WAGO

Industrial Switches Das Switch-Portfolio von WAGO sorgt für die Skalierbarkeit Ihrer ETHERNET-Netzwerkinfrastruktur mit

Amazon : Industrial Ethernet Switch

TRENDnet 8-Port Industrial Fast Ethernet DIN-Rail Mini Switch, TI-ELC80, 8 x 10/100Mbps Ports, IP50 Rated Housing, 1.6Gbps

Industrial Network Switches

Industrial network switches are purpose-built to meet the demands of environments where standard networking equipment might

Industrial Hubs & Switches

Kempston Controls stocks a select range of Hubs and Switches from leading suppliers including Siemens and Beckhof. Give our

How to Select an Industrial Switching Hub | Key Features and ...

This tech blog explains the fundamentals of industrial switching hubs and introduces the main points to consider when

Industrial Hubs And Switches Market Size, Scope, Forecasts

The Industrial Hubs And Switches Market Research Report delivers a sharp, evidence-based assessment of market size, growth

Industrial Network Ethernet Hubs & Switch Hubs in Singapore

Choosing an industrial switching hub with enough ports ensures all necessary devices can be connected without needing additional

Industrial Series Switches

Discover our selection of Industrial Series Switches. Our product experts are here to assist you. Get in touch with our team now.

Industrial Ethernet Switches

Managed, unmanaged and Power-over-Ethernet (PoE) IP20- and IP67-rated Industrial Ethernet Switches are robust and versatile,

Industrial Switch

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