# Industrial-grade switch level



## Overview

When selecting an industrial switch, network architects often classify them by protocol layer (Layer 2, Layer 3) and by whether they support PoE (Power over Ethernet). In this article, we explore the four primary types: We will compare their features, use-cases, advantages and. That is why industrial grade network switches exist. They are designed for robustness, reliability and specialized features. Built to endure the demanding conditions of factories, transportation infrastructure, grid substations, and other harsh environments, Cisco Industrial Ethernet switches. Moxa provides a wide range of industrial Ethernet switches that feature industrial-grade reliability, network redundancy, strengthened security, easy management, and competitive price-to-performance ratios. Our comprehensive portfolio includes unmanaged switches, managed switches, PoE switches. Industrial-grade switches and enterprise-class switches both play an important role in network infrastructure, but they have significant differences in design and functionality. The following is a deep analysis of the differences between these two types of switches: 1. Design Concept and Purpose. Advantech's industrial Ethernet solutions provide an abundance of product options including managed and unmanaged switches, Gigabit Ethernet switches, PoE switches (IEEE 802.



© 2026 METRA FIBER MARKET - All rights reserved

## Article Content

Types of Industrial Grade Network Switches

Learn about L2 and L3 Industrial Grade Network Switches, PoE vs non-PoE types, and how to choose the right rugged switch for your industrial setup.

Industrial Ethernet Switches

Built for diverse industrial applications, these switches feature all-gigabit, high-density, all-copper or mixed copper and fiber ports, PoE options, and resiliency protocols.

Ethernet Switches

Moxa provides a wide range of industrial Ethernet switches that feature industrial-grade reliability, network redundancy, strengthened security, easy management, and competitive price-to

The difference between industrial-grade switches and enterprise-grade ...

Industrial-grade switches and enterprise-class switches exhibit notable differences in design philosophy, structural design and durability, data transmission performance and redundancy, anti-interference

Industrial Ethernet Switches

Our managed Ethernet switches, fiber switches, and router switches provide fast Ethernet and gigabit combo ports as well as numerous network protocols, such as SNMP, PROFINET, and Ethernet/IP,

Comprehensive Analysis of Industrial Switches

The core value of industrial switches lies in their three key technical characteristics—environmental adaptability, reliability, and scalability—which directly determine their

Industrial Network Switches

What are industrial grade switches? Industrial-grade Ethernet Switches are specifically designed to connect devices in network environments that are

Durable Industrial Switches

The DIS switches are designed to easily handle hot and cold temperature variances,* and can cold start at their coldest temperatures. With superior environmental protections to commercial switches, these

Industrial Switches (ISW) | Extreme Networks

*© 2026 METRA FIBER MARKET - All rights reserved*

Extreme Industrial Switches are a family of ruggedized Layer 2 switches designed to operate under harsh environments and extended temperature conditions. They provide continuous uptime,

Industrial Grade Ethernet Switches -

Discover what industrial grade Ethernet switches are, their unique features, real-world applications, key differences from regular switches, and where to buy.

Managing Networks | Why Do I Need an Industrial

I could run down to the local box store or internet marketplace and buy a 5-port switch for less than 20 dollars, or invest in an industrial switch for

Layer 3 Managed Switches

Moxa''s Layer 3 managed switches feature industrial-grade reliability, multicast availability, and security enhancements based on the IEC 62443 standard. We offer toughened industry-specific products with

What is an industrial switch? And what are the differences between it ...

Ordinary switches are prone to equipment failures due to dust and humidity, affecting the continuity of data collection. Industrial Switch Solutions: Fanless Design and Dust/Water Resistance:

Industrial Switches

Find here Industrial Switches, DIN Rail Switches manufacturers, suppliers & exporters in India. Get contact details & address of companies

What is an industrial-grade switch?-

An industrial-grade switch is a type of network switch specifically designed to operate in harsh environments, such as manufacturing plants, outdoor locations, and other demanding

Industrial Switches (ISW) | Extreme Networks

Extreme Industrial Switches are an excellent choice for industrial environments, including intelligent transportation systems, utilities, and smart cities. Full redundant ring technology creates fault-

Switches

PoE Switches Smart IGP-1871 18-Port L2 Plus Managed Industrial PoE Switch, 2 x 1G/2.5G SFP Ports, 16-Port PoE Outputs, Power Budget 240W, 802.3af/at PoE, DIN-Rail, -40°C to 75°C IGX-2872 28

*© 2026 METRA FIBER MARKET - All rights reserved*

## Contact Us

Continue your research online:

Website: https://metramarket.es
Technical inquiry: https://metramarket.es/contact.html

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



© 2026 METRA FIBER MARKET - All rights reserved