

How to Choose an Industrial Switch for Monitoring

Article Overview

Select an industrial switch based on network complexity, criticality, environmental conditions, and monitoring needs, choosing managed switches for production-critical or monitored networks and unmanaged switches for simple, low-risk setups.

Key Considerations

1. Network Complexity and Criticality

- Unmanaged switches are plug-and-play devices suitable for small networks (typically under 10 nodes) where downtime is acceptable, devices are static, and monitoring is not required. They are ideal for standalone machine cells, temporary installations, or budget-constrained monitoring applications .
 - Managed switches provide full control over network behavior, including VLAN segmentation, redundancy protocols, SNMP monitoring, port security, and Quality of Service (QoS). They are essential for production-critical networks, cybersecurity compliance, or networks connecting more than 10 devices .
- #### 2. Environmental and Physical Conditions
- Industrial switches must withstand harsh conditions such as extreme temperatures, vibration, humidity, and electrical noise. Check the operating temperature range and ensure the switch can handle the actual cabinet or enclosure temperature, not just ambient room temperature .
 - Fanless, convection-cooled designs reduce failure risks, and IP-rated enclosures (e.g., IP40) provide protection against dust and debris .
- #### 3. Monitoring and Diagnosti...

Article Content

Dec 18, 2025

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Aug 02, 2025

Managed vs. Unmanaged Industrial Switches: How to Choose

Unmanaged industrial switches are plug-and-play devices for simple networks under 10 nodes with no segmentation

Oct 31, 2025

How to Choose and Deploy the Right Industrial Ethernet Switch

Antaira Technologies, a global leader in industrial networking solutions, presents this engineering guide to help plant

Apr 05, 2026

Industrial switch selection factors to ensure efficient and stable ...

Scalability and Upgrade: Choose an industrial switch that can be easily expanded and upgraded to accommodate

Sep 18, 2025

How to pick the right Industrial Ethernet Switch for critical networks

The initial decision to make when selecting an industrial Ethernet switch is whether to go with a managed switch or an unmanaged

Aug 16, 2025

What is an industrial switch and its applications

What is an industrial switch? Today industrial switch plays a significantly important role in various industries such as energy,

Sep 19, 2025

How to Choose and Deploy the Right Industrial Ethernet Switch

Specifying the wrong switch for your environment means corrosion, thermal failure, signal loss and unplanned

Jan 15, 2026

Comprehensive Analysis of Industrial Switches

In security monitoring, environmental monitoring, intelligent lighting, and other scenarios, industrial switches must

May 14, 2026

Industrial PoE Switch Guide: Power, Budget and Selection

Learn how to choose an industrial PoE switch for cameras, wireless APs, sensors and IIoT devices, including PoE types, power

Aug 03, 2025

Choosing the Right Industrial Switch for 2025

Discover the best types of industrial switches for harsh environments & smart operations in 2025. Learn key features,

Apr 09, 2026

Industrial Ethernet Switch Buying Guide: 4 Essentials

Learn how to choose an industrial Ethernet switch for harsh environments: resilience, PoE, secure management, and

Jan 21, 2026

Industrial Switch Selection Guide: Applicable to Different Industrial ...

In the field of IIoT, industrial switches are key network devices that connect various industrial equipment, sensors, and control

Feb 07, 2026

How to Pick the Right Industrial Ethernet Switch: Managed vs.

If your network is small, stable, and does not require monitoring or traffic control, an unmanaged switch will deliver a

May 03, 2026

How to Choose the Right Switch for Industrial Control Panels

When should switch selection be finalized in panel design? Switch selection should be addressed early, alongside

Jan 08, 2026

Industrial Ethernet Switch Selection Guide

Learn how to choose an industrial Ethernet switch for automation systems, Profinet networks, and reliable industrial

Jan 15, 2026

How to choose industrial switches

In the application scenario of industrial IoT, it is crucial to choose the right industrial switch, which directly affects the

Dec 30, 2025

How to choose industrial switches

Blog January 6, 2025 How to choose industrial switches Industrial switch selection factors to ensure efficient and stable industrial

Oct 02, 2025

How to Choose an Industrial Switch

How to Choose an Industrial Switch With the rapid development of Industry 4.0 and the Internet of Things (IoT)

Dec 26, 2025

The Ultimate Guide To Picking An Industrial Ethernet

Discover the essential factors for choosing an industrial Ethernet switch. Our comprehensive guide offers

Aug 18, 2025

Industrial Switch: Understanding Industrial Ethernet Switch ...

Industrial Internet of Things (IIoT) When Industrial Ethernet Switches interconnect devices that are also connected to the Internet, the

Aug 17, 2025

How to Select and Use Industrial Ethernet Switches

PoE Switch In application scenarios such as railways and buses, switches need to

May 29, 2026

How To Choose Industrial Switch in 2025

Discover how to select the right industrial switch in 2025 with key technical factors to consider, and future trends for industrial

May 14, 2026

Industrial Ethernet Switch Selection: Choosing Among Managed,

Selecting the right Ethernet switch for your industrial network depends on several key factors, including application

Jun 10, 2026

How should I choose an industrial grade Ethernet switch?

In modern industrial automation, Industrial Ethernet Switches (IES) have become a key component. Correctly selecting

Aug 15, 2025

How to choose and deploy the right industrial Ethernet switch

10 key capabilities commonly used to differentiate industrial-grade Ethernet switches from commercial alternatives

Jun 12, 2026

How to pick the right Industrial Ethernet Switch for

Industrial Ethernet switches are comprised of managed and unmanaged switches with Gigabit, PoE, and

Nov 23, 2025

Industrial Switch: Advantages and Different Types

Industrial Ethernet switches provide critical services for secure networks in harsh environments. This article explains

Jul 21, 2026

How to Choose and Deploy the Right Industrial Ethernet Switch

Antaira Technologies breaks down 10 mission-critical capabilities that separate industrial-grade switches from

Apr 19, 2026

How to choose the right switch for your industrial network?

This highly detailed guide helps you define relevant specifications, understand the technical trade-offs, and select the

Sep 02, 2025

What is an Industrial Switch? Industrial Ethernet Switch Guide 2026

Learn what industrial switches are, how they work, and where they are used. Covering features, certifications, PoE, ERPS, IT/OT

Sep 04, 2025

A Guide to Picking the Right Industrial Ethernet Switch

Discover the essential aspects of choosing the right Industrial Ethernet Switch.
Explore network requirements, key features, and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

