

Applications of Layer 3 Industrial Switches



Overview

Industrial Layer 3 switches adopt an enhanced and hardened design to meet critical and centralized requirements in Smart City, surveillance, Intelligent traffic control systems (ITS) and production automation applications. They provide scalable, secure, and high-speed connectivity essential for mission-critical applications. The Westermo range of industrial layer 3 switches provides enhanced routing functionality, all in a robust, single unit design. Our switches offer static routing, IPSec VPN support, DMZ and a powerful firewall in order to segregate networks and protect mission-critical data. We offer toughened industry-specific products with multiple industry certifications, such as parts of the EN 50155 standard for rail applications. FS offers a diverse range of industrial switches, primarily categorized into Layer 2 (L2) and Layer 3 (L3) switches. Understanding the differences between these two types will help you make an informed decision based on your specific needs.



Article Content

Aug 19, 2025

Layer 2 and Layer 3 Managed Switches: The "Task Allocators" and ...

The choice between Layer 2 and Layer 3 managed switches essentially involves balancing "efficiency" and "intelligence." In industrial settings, if the network scale is small and device types are uniform

Apr 01, 2026

Layer 3 Switching

Layer 3 Switching – Routing Between VLANs on Modern Multilayer Switches In today's high-performance networks, speed, segmentation, and scalability are crucial—especially in environments

Apr 14, 2026

What Is a Layer 3 Switch and How Does It Improve Network Efficiency? |

A Layer 3 switch is a network device that combines switching and routing functions, enabling it to forward traffic within VLANs using MAC addresses and route traffic between VLANs via

Feb 24, 2026

Data Link Layer in OSI Model

The data link layer is the second layer from the bottom in the OSI (Open System Interconnection) network architecture model. Responsible for the

Nov 15, 2025

Layer 2 vs. Layer 3 Industrial Switches

In this article, we'll compare FS Layer 2 and Layer 3 industrial switches, highlighting their features and discussing six key factors to consider when choosing between them.

Jun 01, 2026

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, environmental protection,

Jun 16, 2026

Comprehensive Analysis of Industrial Switches

This article will systematically review the core knowledge of industrial switches from three dimensions—classification logic, technical characteristics, and application scenarios—and analyze

Dec 29, 2025

Layer 3 Managed Switches

We offer toughened industry-specific products with multiple industry certifications, such as parts of the EN 50155 standard for rail applications, IEC 61850-3 for

Oct 01, 2025

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

Jun 10, 2026

Layer 3 Switches Explained: Architecture, Routing Logic, Use Cases,

Layer 3 Switches Explained: Architecture, Routing Logic, Use Cases, and Network Design Guide Technical guide to Layer 3 switches, covering L2 switching, IP routing, ASIC

May 08, 2026

Layer 3 Rackmount Switch | Industrial Ethernet Switch

Industrial Layer 3 switches adopt an enhanced and hardened design to meet critical and centralized requirements in Smart City, surveillance, Intelligent traffic control

Jan 20, 2026

What Are Layer 3 Managed Switches and How Do They Enhance

Layer 3 managed switches elevate industrial networks by enabling IP routing, segmentation, and enhanced security beyond Layer 2 capabilities. Their comprehensive feature set

Feb 09, 2026

What Are Layer 3 Switch Examples and How Do They Benefit

A Layer 3 switch combines switching and routing functions to efficiently manage traffic within and between VLANs on a LAN. Examples include Cisco Catalyst 9300, Ubiquiti UniFi

Nov 05, 2025

Layer 3 switches explained

Layer 3 switches are explained in this tip, including the difference between a switch, a router and a Layer 3 switch.

Feb 01, 2026

Moxa M12D-4P-IP68 Field Attach M12 D Coded Screw

The ToughNet TN-5800A Series switches are high-performance M12 Layer 3 Ethernet switches that support Layer 3 routing to facilitate the deployment of

Oct 03, 2025

Here's Why Your Network Might Need a Layer 3 Switch

Layer 3 switches are used in conjunction with traditional switches and network routers on some corporate networks, particularly those with VLANs.

Dec 28, 2025

Understanding the Role of an Industrial Network Switch

The pivotal part of these robust systems is the industrial network switch, which guarantees smooth communication between various devices,

Jul 04, 2025

Types of Industrial Grade Network Switches

A Layer-3 industrial switch adds routing capabilities to the industrial ruggedness. In other words, in addition to switching (Layer 2), it can route traffic between subnets

Jul 26, 2025

Managed Layer 3 Industrial Ethernet Routing Switches | Westermo

The Westermo range of industrial layer 3 switches provides enhanced routing functionality, all in a robust, single unit design. Our switches offer static routing, IPSec VPN support, DMZ and a powerful

Oct 04, 2025

Managed Layer 3 Industrial Ethernet Routing Switches | Westermo

Learn the recipe for designing, implementing and maintaining a truly robust and resilient industrial network with this white paper. Build secure networks with Westermo managed layer 3 Ethernet

Mar 12, 2026

Layer 3 Industrial Ethernet Switches | Industrial Grade

Built for reliability, L3 Ethernet switches are ideal for applications requiring high-speed communication, redundancy, and scalability. The robust design of these L3

Nov 17, 2025

Layer 2 vs. Layer 3 Industrial Switches

When building a robust industrial network, selecting the right type of switch is critical. FS offers a diverse range of industrial switches, primarily categorized into Layer 2 (L2) and Layer 3 (L3) switches.

Feb 12, 2026

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

Contact Us

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