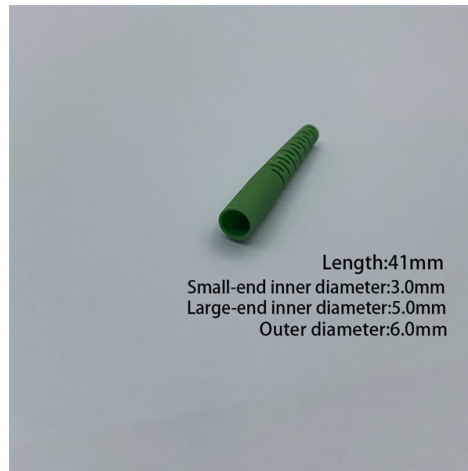


Profinet Industrial Switch Usage



Overview

This guide is based on Cisco Industrial Ethernet products, certified for both PROFINET and MRP by Profinet International. Both types of switches are suitable for PROFINET networks. An unmanaged switch has no built-in intelligence except to send incoming. The Connected Factory - PROFINET Design and Implementation guide provides an Ethernet and IP-networking-based architecture. This Cisco Validated Design focuses on the manufacturing industry. Should you use a managed switch or an unmanaged switch with PROFINET?

Yes, you should use either a managed or an unmanaged Industrial Ethernet switch with PROFINET ;). The CPU defines IP addresses and PN names according to the topology made in the TIA Portal. Making what is known better, solving tasks more elegantly and designing components as small and simple. Bottom Line Up Front: PROFINET took standard office Ethernet and made it work reliably for industrial control. Instead of replacing Ethernet entirely, it cleverly layers real-time communication on top of regular network traffic.



Article Content

Connected Factory

It helps you integrate Cisco Industrial Ethernet switches into PROFINET-based industrial applications. This Cisco Validated Design focuses on the manufacturing industry, covering architectures used

Which Switch to Use for PROFINET? [Tech Tip] – PROFINEWS

You can buy unmanaged switches from many vendors that meet the minimum requirements for PROFINET: a 100 Mbps full-duplex Industrial Ethernet switch. Also, the Quality of

Configuring PROFINET

PROFINET is the PROFIBUS International (PI) open Industrial Ethernet Standard that uses TCP/IP and IT standards for automation control. PROFINET is particularly useful for industrial automation

PROFINET vs Ethernet: A Comprehensive Comparison

PROFINET is a high-performance industrial Ethernet communication protocol designed specifically for automation. Built upon standard Ethernet

How to select the right industrial Ethernet standard: PROFINET

This is the third installment of “How to select the right industrial Ethernet standard,” a blog series for designers who have decided to leverage industrial Ethernet in their systems. This series is covering

Which switch to use for PROFINET?

Should you use a managed switch or an unmanaged switch with PROFINET? You can use either a managed or an unmanaged Industrial Ethernet switch with PROFINET.

Ethernet and PROFINET Switches for Industrial Networks

However, the use of conventional Ethernet switches in conjunction with PROFINET networks should be viewed with caution due to the lack of telegram prioritization and the associated data load in many

PROFINET Demystified: Practical Industrial Ethernet Guide

Learn how PROFINET makes standard Ethernet work for industrial control. Practical setup, troubleshooting, and security tips from 35 years of field experience.

How to select the right industrial Ethernet standard: PROFINET

PROFINET is very flexible in terms of network topology and includes line topology, ring topology, star topology, and combinations of these using hub and switch devices.

PROFINET-Switch FAQ

PROFINET is based on the Ethernet standard and the PROFINET switch can be used in normal TCP/IP networks, especially in industrial networks, as a managed switch.

PROFINET Configuration Guide, Cisco Catalyst IE31xx

In a PROFINET I/O system, all the I/O devices communicate over an Ethernet communication network to meet the automation industry requirement

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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

