

Industrial Ethernet switch between two PLCs



Overview

This compact device acts as a translator between two otherwise incompatible industrial dialects — EtherNet/IP and PROFINET IO — enabling seamless data exchange between Rockwell and Siemens PLCs (act as Profinet IO mode) while allowing each to retain its native protocol. For a 100m cable run with simple DI/DO logic, the Produced/Consumed method (Method 1) provides the best reliability and scalability, though it. Ethernet switch ensure that PLCs can obtain the required data in a timely and accurate manner by supporting various communication protocols and high-speed data transmission, enabling real-time monitoring and control of the production process. This blog post explores the realm of EtherNet/IP in PLC communication, providing a comprehensive guide that traverses. Step-by-Step Guide to Networking Allen Bradley PLCs Over EtherNet/IP is essential reading for automation engineers, system integrators, and industrial technicians tasked with implementing or maintaining Rockwell Automation control systems. Networking Allen Bradley programmable logic controllers. That's where the PLX82-EIP-PNC Gateway from ProSoft Technology comes in. EtherNet/IP was built on standard Ethernet technology, so it more naturally bridges the gap between factory floors and IT systems.



Article Content

Utilizing Ethernet/IP in PLC Communication

Planned meticulously and executed with precision, the data exchange between PLCs via Ethernet/IP becomes a bedrock of industrial automation, catapulting productivity and adaptability to

Redundancy and Link Aggregation in Industrial

Why Redundancy Matters in Industrial Automation Industrial ethernet networks are increasingly used for real-time control, where PLCs exchange I/O

Wago 758-500 Ethernet Switch, 5 Port, 10-30VDC, 70mA

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Ethernet Switch for different PLCs | PLCTalk

I have a Direct Logic PLC connected to an ethernet switch in the same vicinity as an Allen Bradley PLC that I'll be installing shortly. Is there an issue using the same switch for both? I

Time-Sensitive Networking (TSN) for Industrial Ethernet: Why ...

Time-Sensitive Networking (TSN) eliminates that compromise. It brings deterministic, bounded-latency communication to standard IEEE 802.3 Ethernet — meaning your motion control

How to Set Up Modbus TCP/IP Communication: Step

Whether you're connecting PLCs to a SCADA system, integrating sensors into an IoT platform, or commissioning industrial equipment, this tutorial

Industrial Ethernet vs Commercial Ethernet | Key Differences for ...

Learn the key differences between Industrial Ethernet and Commercial Ethernet, including durability, reliability, environmental resistance, and long-term network performance for mission-critical business

Ethernet/IP Communication in Modern PLC Networks

This article will discuss Ethernet/IP, its history, how it works, benefits, drawbacks, and applications in industrial automation that make it a popular

NVIDIA Jetson Robotics and Industrial Ethernet Integration

Why NVIDIA Jetson robots need EtherCAT, PROFINET and EtherNet/IP integration to connect AI compute with servo drives, PLCs and industrial controls.

Mini Industrial 5-Port Gigabit Ethernet Switch Review

If you need a compact, rugged switch for edge sites or machine rooms, this mini industrial 5-port gigabit unit deserves a quick look. It gives you full gigabit RJ45 ports, passive

SCADA Tutorial for Beginners 2026 | Learn SCADA

Complete SCADA tutorial for beginners: Learn what SCADA is, how it works, system architecture, popular software, build your first project step-by

Application of Ethernet switch with PLC

Ethernet switch connect multiple PLCs to achieve a distributed control system. This system enables PLCs in different areas to work together to achieve efficient collaborative operation of the production

How to Connect Two Siemens S7-1500 PLCs for Data Exchange -

Two Siemens CPU 1510SP PLCs on different IP subnets (e.g., 1.1.1.1 and 1.1.2.1) can exchange data through multiple methods. The approach depends on network topology, security

Turck RJ45 RJ45 440-10M Industrial Ethernet Cable 10 Meter In Bag

Description: The Turck RJ45 RJ45 440-10M Industrial Ethernet Cable is used to provide high-speed Ethernet communication between PLCs, industrial controllers, switches, HMIs, and network devices

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PLANET IGS-5225-8P4S network switch Managed L2+ Gigabit Ethernet

It enables administrators to remotely monitor the industrial Ethernet switch's operating information, port information and communication status, thus easily achieving enhanced monitoring and maintenance

Assistance Needed for Setting Up Communication Between Two

In this preliminary phase, I plan to connect the Ethernet cables of the two PLCs to two separate LAN ports on the industrial router. I kindly request guidance on the step-by-step procedure

Connecting Two ControlLogix PLCs Over EtherNet/IP

Configure EtherNet/IP communication between two ControlLogix PLCs using Produced/Consumed tags or MSG instructions. Includes three methods ranked by reliability.

Redundancy and Link Aggregation in Industrial

Device-Level Ring (DLR) DLR is another ring redundancy protocol, specific to EtherNet/IP networks. DLR is implemented directly within end devices

Modbus RTU vs Modbus TCP vs OPC UA: Which to Use

Level 2 — Control network: Modbus TCP. Between PLCs, and from the PLCs to the local SCADA. A segmented OT Ethernet network, industrial switches, concurrency so control and

Step-by-Step Guide to Networking Allen Bradley PLCs

A common architectural choice is a star or hierarchical topology, where Allen Bradley ControlLogix or CompactLogix PLCs are connected through

Industrial Ethernet for Process Automation and Industry 4.0

Unlike office Ethernet, Industrial Ethernet is designed for deterministic communication, high availability, redundancy, and harsh industrial environments, enabling seamless connectivity between ...

Omron W4S1-05D Industrial Switch — 5-Port Unmanaged Buyer Review

Omron W4S1-05D Industrial Switching Hub, 5-Port Type - Specs, Expert Review & Buying Guide Controls engineers and panel builders searching for the Omron W4S1-05D are typically at the

How I Got Siemens PLC Talking to an EtherNet/IP

This compact device acts as a translator between two otherwise incompatible industrial dialects — EtherNet/IP and PROFINET IO — enabling

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

How to use Ethernet/IP protocol in PLC communication?

By combining the Ethernet/IP protocol suite with PLC systems, it enables efficient communication between sensors, actuators, and other devices.

Contact Us

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