

Ab Industrial Switch Ring Network Configuration



Overview

This publication describes DLR network operation, topologies, configuration considerations, and diagnostic methods. Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes from the Product Compatibility and Download Center at rok.Device Level. This document provides basic background information regarding adding ring redundancy in your wired Ethernet networks. It will explore the N-Tron proprietary protocol N-Ring and how it is a step up from IEEE Spanning Tree and Rapid Spanning Tree Protocol (STP, RSTP). These protocols enable the switches to detect link failures and reconfigure the network topology in real-time, routing data. how to configure the Ring Master and check upon the redundancy protocol status of the swiThis document is introduction of the Industrial Ethernet Switch Software Spec for Ringv2. In our current design, one device could support 3 ring index, they are include ring, coupling, dual-homing, chain, and balancing-chain. Note 1 - It must enable group1 before configure group2 as coupling. 1 available from your local Rockwell Automation sales office or online at com/literature/) describes some important differences between solid-state equipment.

Article Content

Aug 01, 2025

Perle P-Ring Protocol | Industrial Managed Switches

Perle's P-Ring feature, available on all IDS Managed Switches, eliminates this hassle by providing an easy to use method for configuring a ring network that uses

Sep 30, 2025

Industrial Automation Ring Network Solution

This solution builds a basic two-layer network architecture designed to decrease complexity, enhance security, and increase efficiency and operating uptime for

Sep 27, 2025

Ethernet Ring Redundancy

This document provides basic background information regarding adding ring redundancy in your wired Ethernet networks. It will explore the N-Tron proprietary protocol N-Ring and how it is a

Aug 03, 2025

Redundancy Protocol Configuration Guide, Cisco

Device Level Ring Components of DLR DLR Topology Multiple Rings Redundant Gateways Cisco IE Switch Support for DLR DLR Feature Interactions

Aug 28, 2025

Ring v2 Application Guide

In our current design, one device could support 3 ring index, they are include ring, coupling, dual-homing, chain, and balancing-chain. Note 1 - It must enable group1 before configure group2 as

Jan 18, 2026

Setup of a Ring Topology based on "MRPD"

In the "Devices & networks" overview, insert two ET 200SP stations with a PROFINET interface module (in this case 155-6 PN HS) and equip it with the desired modules (in this case one DI module and

Apr 30, 2026

How Industrial Switches Build Industrial Ring Networks

This article aims to provide a concise yet comprehensive overview of how industrial switches contribute to the formation of industrial ring networks, catering to both traditional industry

Jun 25, 2026

Industrial Lan switch how to group ring network

September 19, 2024 Industrial Lan switch how to group ring network In the industrial Internet of Things, the Industrial Lan Switch group ring network is an important network architecture method that can

Jan 16, 2026

Function Overview of the Industrial Managed Switch

Industrial Managed Switches: Function Overview Administration and Diagnostics, Availability, Security, Data Transmission, Performance: All functions of the

Dec 03, 2025

Understanding AC Metal-Enclosed Ring Network

Explore the essentials of AC metal-enclosed ring network switchgear in this comprehensive guide, perfect for professionals in the electrical engineering

Dec 20, 2025

Safety Specification Enhancement Process

Please note that the configuration steps required to support those networks using VLAN routing (VLAN-based ring network) and those network which do not use VLAN routing (non-VLAN based ring

Mar 15, 2026

Troubleshoot EtherNet/IP Networks

Troubleshoot EtherNet/IP Networks Important User Information Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this

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Industrial Network Products

The Embedded Switch Technology embeds popular ethernet switch features directly into your hardware to support high performance applications, without the need for

Aug 13, 2025

SCALANCE X-200

Preface Purpose of the Configuration Manual This manual supports you when configuring the SCALANCE X-200 Industrial Ethernet switches. It outlines the technical options provided by a

Dec 07, 2025

rspsupply

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

Oct 21, 2025

The OEM Guide to Networking ENET-RM001A-EN-P

The primary disadvantages of a device-level ring topology are additional setup required (e.g., configuring the active ring supervisor) over a device-level linear or switch-level star network topology, and

Apr 19, 2026

Redundant ring network switch configuration for a

The redundant ring network switch configuration of industrial switches is a key support for the stable operation of subway networks.

Dec 09, 2025

EtherNet/IP Device Level Ring

Ring devices receive IP address changes from the switch when the ring converges after the loss of a network connection. If you assign a new IP address to an active device, the new address does not

Jun 09, 2026

Industrial Automation Ring Network Solution

Efficient Industrial Automation Network This solution builds a basic two-layer network architecture designed to decrease complexity, enhance security, and increase

Feb 06, 2026

EtherNet/IP Embedded Switch Technology Application Guide

This manual describes how to install, configure, and maintain linear and device-level ring (DLR) networks that use Rockwell Automation EtherNet/IP devices with embedded switch technology.

Aug 23, 2025

How to Configure ERPS on Industrial Network Switch

ERPS Industrial Network Switch provides protection and recovery switching for a ring topology while ensuring no loops are formed.

Jan 01, 2026

Configuration of a Ring Topology Based on “MRP”

Use of the ring redundancy protocol MRP (“Media Redundancy Protocol”) for setting up a redundant PROFINET communication with SIMATIC

Apr 20, 2026

Industrial Ethernet Training 04 Setting up an O-Ring network structure ...

s three switches, we will use only these as an example for a configuration of O-Ring redundancy. First of all, please disconnect all cables and only connect your computer via Ethernet cable to your 8-port

May 10, 2026

Redundant Ring Technology for Industrial Ethernet Applications

Next, we introduce “redundant ring” technology, and point out the advantages that redundant rings have over traditional systems. In closing, we highlight the key features of industrial Ethernet switches, and

Sep 22, 2025

How Industrial Switches Build Industrial Ring Networks

In a ring network configuration, industrial switches are interconnected in a circular fashion, creating a closed-loop communication path. Each switch serves as a node in the network,

Contact Us

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