

Teardown of an industrial-grade gigabit switch



Article Overview

Disassembling an industrial-grade gigabit switch reveals a compact PCB with a central switch ASIC, magnetics, power regulation, and heat management components.

Preparation and Safety

Before starting, unplug the switch from power and network connections. Industrial switches may have higher voltage inputs (e.g., 8-55V DC) and more robust power supplies, so caution is essential. Use anti-static precautions such as a grounded wrist strap to prevent damage to sensitive components like the switch ASIC or EEPROM.

Disassembly Steps

- Remove the enclosure screws: Industrial switches often use metal DIN-rail or rack-mount enclosures. Screws may be hidden under rubber feet or protective covers .
- Separate the top and bottom covers: Apply gentle pressure to avoid cracking the metal or plastic housing. Some units may have clips or tabs in addition to screws .
- Extract the PCB: The PCB is usually held by standoffs or the enclosure halves. Carefully lift the board, ensuring LED prisms and port connectors are not damaged .
- Remove heatsinks: If present, heatsinks are often clipped or screwed to the PCB. Pinch or unscrew carefully to expose the main switch chip .

Key Components Observed...

Article Content

Industrial Ethernet Switches | Industrial Network Switch | Perle

Industrial-grade Ethernet Switches are specifically designed to connect devices in network environments that are subject to extreme

NetGear GS208

I've been in the process of upgrading my home network, since I upgraded to gigabit service,

TP-Link 8-Port Ethernet Switch (TL-SG108) - New Screwdriver

Latest visitor to the teardown workbench is a TP-Link 8-port Gigabit Ethernet Switch. When plugged in to power, I see

Nintendo Switch Teardown

This Friday night is the moment you've all been waiting for: Nintendo has finally launched its new console, the Nintendo

Teardown of a Cisco CSS 11503 Content Services Switch

This old Cisco switch was on its way to the dumpster at my work place, so I thought I would rescue it. After all, while

Cisco SG110D-08

It was hard to tell if any of the consumer grade 8 port switches were better than others, so I

Ethernet Switches

Moxa provides a wide range of industrial Ethernet switches that feature industrial-grade reliability, network redundancy, strengthened

Cisco hardware EXTREME teardown series

In this series I present an extremely detailed overview and teardown of Cisco® switches, routers and security appliances mainly

Teardown: Dell Z9100 Network Switch | Electronics360

Teardown-style look at the Dell EMC Networking Z9100-ON Z-Series switch, which is designed to be a high-performance, 1U fixed,

RJ45 Field Failure Analysis: OEM Ethernet Hardware Teardown

An OEM designed an unmanaged gigabit switch for factory automation. Within weeks of deployment, the switches

Project | Cisco SG110D-08

There isn't much too this at all, the 8370N is an all-in-one/ASIC/SOC that provides the 8-port Gigabit switch.

Cisco 3750G Gigabit Layer 3 switch teardown, a detailed ...

Very detailed overview and a full tear-down of a Cisco 3750G-24TS-S gigabit Layer 3 switch.

Industrial Switch Teardown

5-Year Warranty | Made in Shenzhen, China#IndustrialSwitch #EthernetSwitch
#NetworkSwitch #IndustrialNetworking

Hardware Teardowns: A List of 80 Helpful Blogs

If you are an engineer who is interested in embedded product development, you must

Cisco LinkSys Switch disassemble teardown and repair

This video is about a Cisco LinkSys 1Gbit Switch where the connected devices dropped

Teardown Analysis | TechInsights

Experience the intricacies of the latest tech with our exclusive teardown videos. Watch as experts disassemble

Teardown: Gigabit Ethernet switch shut down by lightning strike

Other theories? Sound off in the comments. This teardown is part of a series on equipment damaged by a lightning

Cisco 2960G Switch teardown an detailed overview for CCNA lab and ...

Here is a disassembly, tear-down and detailed overview presented for an 8 port passively

Black Box industrial unmanaged gigabit ethernet switch LGH008A

Black Box industrial unmanaged gigabit ethernet switch LGH008A #teardown
Computers

Cisco Catalyst 2900 XL Ethernet switch disassembly and repair

How to disassemble a Cisco Catalyst 2900XL series Ethernet switch, to access and remove its power supply in hope of repairing a

Black Box industrial unmanaged gigabit ethernet switch LGH008A

Either way get to look inside. The STMicroelectronics L4973D3.3 is a 3.5 A step down

Nintendo Switch Teardown

Nintendo Switch Teardown Guide ID: 78263 - Draft: 2021-07-05 INTRODUCTION This Friday night is the

Tear-Down of an HP ProCurve 2824 Ethernet Switch

One of the courses I'm taking this quarter at Cal Poly is an Introduction to Computer Networks course, where we learn

Teardown: Trying to save a trusty switch

Also see : When reliability hangs by a “wall wart” thread The anatomy of a network switch: an eight-port, gigabit glitch

Netgear ProSAFE GS105 Gigabit Switch Disassembly

This guide will help you to take apart your Netgear ProSAFE GS105 Gigabit Switch. Use this guide as a starting point

Cisco SG110D-08

I've been in the process of upgrading my home network, since I upgraded to gigabit service,

1Gbit SFP Ethernet Optic Module Teardown

1Gbit SFP Ethernet Optic Module Teardown 1Gbit SFP Ethernet Optic Module Teardown

Industrial Ethernet Switches

Modernize your operations with Cisco Industrial Ethernet switches: Increase productivity, boost security, and empower industrial AI.

How to pick the right Industrial Ethernet Switch for

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

Durable Industrial Switches

D-Link's Industrial Switches have industrial-grade resilience to maintain your network uptime despite extreme hot and cold

Cisco 2960G Switch teardown an detailed overview for CCNA lab and ...

Complete tear-down and overview of a Cisco 2960G gigabit switch for CCNA candidates

Project | Cisco SG110D-08

Cisco SG110D-08 - TearDown Back to overview unboxing and uncovering of the Cisco SG110D - 8 Port Gigabit

A teardown tale of two not-so-different switches

Two eight-port Gigabit Ethernet switches. Both exposed to an intense lightning EMP.
Both

Teardown of 16 Port POE switch from TP-Link

Decided to take a look what inside of Tp-link TL-SG1016PE 16 port gigabit switch with 8

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