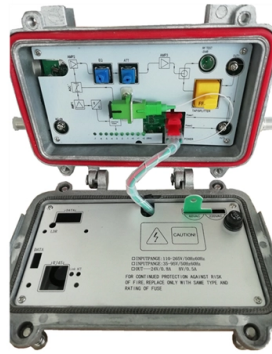


Fanless Core Switch



AI Overview

Fanless core switches provide silent, reliable network connectivity with low maintenance, ideal for noise-sensitive or industrial environments.

Overview

Fanless core switches are designed to operate without active cooling, relying on passive heat dissipation. This makes them silent, energy-efficient, and highly reliable, especially in environments where noise or dust is a concern, such as offices, labs, or industrial settings. They are available in both Layer 2 and Layer 3 configurations, supporting advanced routing, VLAN management, and PoE for connected devices.

Key Features

- Silent Operation:** No fans, reducing noise and mechanical failure points.
- Port Options:** Available with Gigabit, 2.5G, 10G, and SFP/SFP+ fiber uplinks for high-speed connectivity.
- PoE Support:** Many models provide PoE/PoE+ or PoE++ to power devices like IP cameras, phones, and access points.
- Layer 3 Capabilities:** Some fanless switches support inter-VLAN routing, static routing, and advanced network management.
- Industrial and Rugged Models:** DIN rail-mountable switches for harsh environments, supporting extreme temperatures and vibration.

Popular Models

- HP Instant On Series:** Fanless Layer 2 and smart-managed switches for small businesses, supporting PoE and 1-10GbE uplinks.
- Arista 710P Series:** Compact, fanless Layer 2/3 switches with PoE up to 60W and uplinks up to 10Gbps, suitable for edge deployments.
- Edgecore ECS2100-28T:** Web Smart Pro fanless switch with 24 GE ports and 4 SFP uplinks, ideal for SMB core or aggregation layers.
- Alcatel-Lucent OmniSwitch 6465/6575:** Rugged, fanless industrial switches for mission-critical applications with PoE and precision timing.
- MikroTik CRS317-1G-16S+RM:** Managed Layer 3 fanless switch with 16 SFP+ ports, passive cooling, and redundancy features.

Deployment Considerations

- Environment:** Fanless switches are ideal for quiet offices, classrooms, or industrial sites where dust or vibration is present.
- Power and Heat:** Passive cooling limits maximum power consumption; ensure PoE and port density requirements are met.

Article Content

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High-performance switches designed to scale and optimize performance of any network with a magical management experience.

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Fixed core and aggregation switches for AI-ready networks with integrated security and up to 400G uplinks.

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We test 15+ fanless 2.5GbE switches to see which are the top picks, which have cool features, and which ones are simply overpriced

Inexpensive 4x 2.5GbE Fanless Router Firewall Box Review

We take a look at this inexpensive 4x 2.5GbE fanless box with Intel J4125 and i225 NICs that now works as a pfSense firewall and router

10 Best Fanless Mini PCs for Office Work in 2026

Compare quiet, compact fanless mini PCs that handle everyday office tasks, dual displays, and reliable connectivity with less clutter.

Fanless Industrial Box PCs (IPC)

Embedded Industrial Box PCs provide a high-quality option for applications that do not require a fixed display. A fanless PC with plenty of built in I/O connections

Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost-efficient and meet the demands of hybrid work.

Fanless Switch vs Built-in Fan Switch: Which One

Discover the key differences between fanless switches and built-in fan switches. Learn how to choose the right quiet, energy-efficient network switch

FS Community

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

L2 SWITCHES

L2+/Lite L3 10G Multi-Gigabit Ethernet Switch The Edgecore ECS5500-12P switch is a 10G Ethernet access switch with 8 x 10GBASE-T ports and 2 x 10G SFP+/2

MIC-770 V3

Compact Fanless System with 10th Gen Intel® Xeon®/Core™ i CPU Socket (LGA 1200) MIC-770 V3 Compact Fanless System with 12th/13th/14th Gen Intel®

Fanless Mini PC, Industrial PC, Mini Computer Dual Core

Amazon : UDPTCP Fanless Mini PC, Industrial PC, Mini Computer Dual Core N2840, 4K HD+VGA, 2Gigabit Ethernet, USB, Mini Desktop PC 2 RS232 COM (Switch to 2 RS485),

The Ultimate Cheap 10GbE Switch Buyers Guide

The STH 10GbE Switch Buyer's Guide is the resource to see all of the cheap 10GbE switches that we have tested in one place

Fanless Switch vs Built-in Fan Switch: How to Choose?

Fanless switch: Passive Cooling Fanless switch means that there is no fan built into it, which leads to a quiet operation.

A Closer Look at Fanless Switch

A Closer Look at Fanless Switch If your laptop has built-in fan, you must have gone through such experience: when your laptop has been working for a long time, it will be heating. Then,

The best network switch of 2025 | TechRadar

The best network switch will be a necessity for anyone looking to add more wired connections and gain greater network speeds.

FanlessTech

At \$539, this fanless Windows 11 Pro PC feels like a bargain these days. Powered by an Intel Core i5-1235U processor

10 Best Fanless Mini PCs With 10GbE for Quiet, High-Speed

A fanless mini PC with 10GbE is a smart pick when you want serious network speed without the noise, dust buildup, or power draw of a full desktop. They're popular for firewall

MikroTik · CRS304-4XG-IN

Compact, powerful, and ready to simplify your 10 Gigabit network setups with 4x10G Ethernet ports ready to use out-of-the-box. No extra modules needed! The

How I Chose the Best Managed Network Switch for My Home Lab

When I first built my home lab back in 2020, I started with a Ubiquiti EdgeRouter 10X and an EdgeSwitch 10XP at the core. That setup carried me reliably for a solid two to three years:

Contact Us

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