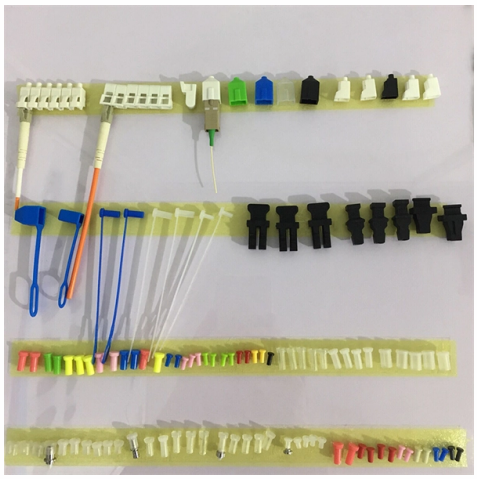
Certified Air-Cooled Switch 10G



Overview

Ethernet Switches The 3U 56 Channel and 25Gbps VPX conduction and air-cooled Ethernet switch is an addition to our 10G technology in 3U and 6U configuratio.

Key Takeaways

Air-cooled 10G Ethernet switches provide high-performance, ruggedized connectivity with configurable 10G ports, low-latency switching, and support for industrial or mission-critical applications.

Key Features

Port Configuration and Throughput: Air-cooled 10G switches, such as the Fulla 3U VPX, support up to 48 channels of 10 GbE interfaces, configurable between 10G-Base-T and 10G-Base-KR, while also supporting 100M and 1G modes for backward compatibility. These switches offer line-rate forwarding up to 480 Gbps with non-blocking throughput and low-latency design, suitable for high-speed embedded systems. Cooling and Ruggedization: Air-cooled variants are designed for convection cooling, eliminating the need for liquid cooling while maintaining reliable operation in harsh environments.

They are often available alongside conduction-cooled options for VPX systems, meeting SOSA-aligned standards for military and aerospace applications. Management and Protocol Support: These switches provide Layer 2/3 managed switching, including multicast, Quality of Service (QoS), security features, and Precision Time Protocol (IEEE 1588v1/v2) for time-sensitive networking. Management software supports virtualization, configuration flexibility, and integration with high-speed media converters.

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Industrial and Military Applications: Air-cooled 10G switches are suitable for radar, sonar, C4ISR, AI, and other embedded systems. Industrial-grade switches, like the Cisco IE 5000 Series, offer ruggedized rack-mount designs with multiple 10G uplinks, PoE support, and compliance with harsh environmental conditions, making them ideal for utilities, manufacturing, ITS, oil and gas, and city surveillance. Form Factors and Vendor Options: VPX 3U/6U modules (Concurrent Technologies, Amphenol Aerospace)Rack-mount industrial switches (Cisco IE 5000 Series)CompactPCI, PCIe, XMC, and standalone systems (Aitech Systems) These options provide flexibility in deployment depending on system size, port density, and environmental requirements.

Summary

Certified air-cooled 10G Ethernet switches combine high-speed connectivity, ruggedized design, and flexible management for demanding industrial, military, and embedded applications. They support 10GBase-T/KR ports, low-latency switching, and advanced Layer 2/3 features, while air-cooling ensures reliable operation without complex liquid cooling systems. Vendors like Concurrent Technologies, Amphenol Aerospace, Cisco, and Aitech offer a range of solutions tailored to VPX, rack-mount, and embedded system requirements.

Article Content

Ethernet Switches

The 3U 56 Channel and 25Gbps VPX conduction and air-cooled Ethernet switch is an addition to our 10G technology in 3U and 6U configurations. The switch is configurable for system connectivity,

Layer 3 managed 3U VPX fabric switch board

Fulla is a 3U VPX layer 2/3 Ethernet switch that supports flexible connectivity with 10G Ethernet ports, configurable as 10G-Base-T or 10G-Base-KR. It offers up to 480 Gbps non-blocking throughput and

VPX3-687 10 Gigabit Ethernet Switch

Validated for deployment in the harshest environments, the VPX3-687 3U VPX Ethernet switch is available in a range of air-cooled and conduction-cooled

Best 10Gb Switch of 2026: Tested and Reviewed

In this comprehensive guide, we''ve tested and reviewed the best 10Gb switches to help you make an informed decision.

VPX3-655 | Curtiss-Wright Defense Solutions | Defense Solutions ...

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The Curtiss-Wright VPX3-655 is a very versatile Ethernet switch supporting 1G, 10G and 40G ports, including 12x 10GBASE-T ports, providing high-speed connectivity for modular embedded computing

12-Channel 10G Copper Rugged Ethernet Switch

Amphenol''s Rugged 12-Channel Ethernet Switch Box is conduction cooled and configurable for system connectivity, speeds, port types, and interoperation with various high-speed media converters and

Xtreme/10G XDG205

This embedded ethernet switch platform is ideal for space constrained environments requiring high-density, high-bandwidth ethernet switching. Ideal for robotics and

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

IEC61850-3 Layer 3 10G Ethernet Switch | Industrial & Telecom

CTC Union offers a full spectrum of products, including IEC61850-3 Layer 3 10G Ethernet Switch, Industrial Ethernet, PoE, EN50155 and E-Mark certified switches. CTC Union''s goal is to provide

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Ascend Air-Cooled ChillerModel ACR

Trane air-cooled chillers are uniquely suited to low temperature applications like ice storage because of the ambient relief experienced at night. Chiller ice making efficiencies are typically similar to or even

Generac 10kW Air-Cooled Home Standby with 16

The Generac Guardian 10/9 kW Air-Cooled Standby Generator, Aluminum Enclosure w/ 16-Circuit Transfer Switch, WiFi Enabled, w/ free MobileLink

CAT 635 Trailblazer AGZ Air Cooled

Daikin Applied Trailblazer air-cooled scroll compressor chillers 030-230 ton models have been tested and certified by an independent agency — experts in seismic analysis and design — to meet IBC

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10G Switches – 5-Port 10G Switch | TRENDnet

TRENDnet''s 5-Port 10G Switch, model TEG-S750, provides advanced high bandwidth performance, ease of use, and reliability. The TEG-S750 10G switch

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