

Manufacturer s PAM4 Air-Cooled Switch



Overview

Amphenol's Rugged 156-Channel 50G/400G PAM-4 Ethernet Switch Box is conduction cooled and configurable for system connectivity, speeds, port types, and interoperability with various high-speed media converters and connectors for system interfacing. Original NDR/400GbE (100G-PAM4-based) transceivers support both InfiniBand and Ethernet depending on the switch inserted into. Like Tomahawk 3, it uses 50Gbps PAM4 interfaces for compatibility with available 400Gbps Ethernet (400GbE) optical modules. The result is the industry's first 25. Learn about dual-port design, flexible configurations, transmission distances, and how to validate performance in your network. NVIDIA® LinkX® 400Gb/s Cable and Transceiver User Guides provides detailed information, figures, and ordering part numbers to assist in configuring cables and transceivers for use with network switches, BlueField® DPUs, and ConnectX® network adapters for both Ethernet and InfiniBand protocols.

Article Content

Dec 16, 2025

NVIDIA/Mellanox MMS4A00-XM/MMS4C10-XM (980

Powered by the Broadcom 3nm Sian3 DSP (BCM83628), the transceiver features advanced PAM4 signal conditioning and link robustness with ultra-low bit error

Nov 21, 2025

DesignCon 2002

This paper provides an analysis of PCIe 6.0 (64Gbps, PAM4) link performance in both air-cooling and immersion-cooling conditions. In addition to revealing the performance degradation and the related

Jul 15, 2025

Optical Transceiver Market Price Trends 2026: TCO & Risks

Optical Transceiver Market Price Trends 2026: The 800G Shift Procurement forecasts frequently project aggressive price drops for 800G optics by 2026, ignoring the non-linear power

Mar 17, 2026

Comparative Evaluation of 100G-PAM4 Ethernet Link Performance in Air ...

Download Citation | On Oct 6, 2024, Dan Liu and others published Comparative Evaluation of 100G-PAM4 Ethernet Link Performance in Air and Immersion Cooling Conditions | Find, read and cite all

Mar 04, 2026

156-Channel 50G/400G PAM-4 Rugged Ethernet

Description: Amphenol's Rugged 156-Channel 50G/400G PAM-4 Ethernet Switch Box is conduction cooled and configurable for system connectivity, speeds, port

Oct 27, 2025

PAM-1 and PAM-2 Multi-Voltage Relay Modules Data Sheet

Air Products & Controls, Inc. PAM-1, PAM-2, and PAM-4 Multi-Voltage Relay Modules are encapsulated multi-voltage devices. The PAM-1 relay provides 10.0 Amp Form-C contacts and may be energized

Oct 28, 2025

NVIDIA/Mellanox MMA4Z00-NS Compatible 800GBASE

This transceiver is compliant with IEEE 802.3ck, OSFP MSA standards. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating

Apr 15, 2026

PAM-4 | Air Products | Relays & Contactors

Buy the PAM-4 Today! Relay, Spdt, Encapsulated, 5 Flying Leads, 12vdc To 40vdc - Over 1.8 million parts in stock ready to ship today!

Oct 17, 2025

PAM4, WJA5 024-060 Air Conditioner Instructions: AI Chat ...

Get installation help for PAM4, WJA5 024-060 Air Conditioner System. AI answers and full PDF manual for your Single-Packaged R-454B unit

Oct 05, 2025

Comparative Evaluation of 100G-PAM4 Ethernet Link Performance in Air ...

This paper comprehensively evaluates signal integrity (SI) performance in 100G-PAM4 Ethernet links under two different cooling methodologies: air cooling and immersion cooling. It focuses on how

Feb 03, 2026

OMPAM4-WJA5-01

Fig. 1 – Unit PAM4 and WJA5 Our products are designed, tested and built in accordance with DOE standardized procedures; however, actual operating results and efficiencies may vary based on

Jan 25, 2026

AND PAM SERIES

MULTI-VOLTAGE RELAY MODULES The PAM Series Relays are encapsulated multi-voltage devices with “flying” leads that offer versatile, reliable performance in a convenient package. Several of the

Dec 25, 2025

NVIDIA 400G & 100G-PAM4 Optical Modules: OSFP & QSFP112 for

Description: Explore NVIDIA's 400G and 100G-PAM4 OSFP and QSFP112 optical modules for high-speed switch connectivity. Learn about dual-port design, flexible configurations,

Jun 14, 2026

PAM4-WJA5-02SI

PAM4, WJA5 Single-Packaged Air Conditioner System with R-454B Refrigerant Single Phase 2 to 5 Nominal Tons (Sizes 024-060)

Feb 16, 2026

TOMAHAWK 4 SWITCH FIRST TO 25.6TBPS

Like Tomahawk 3, it uses 50Gbps PAM4 interfaces for compatibility with available 400Gbps Ethernet (400GbE) optical modules. The result is the industry's first 25.6Tbps switch chip, sampling almost

Aug 11, 2025

LinkX User Guide for 400Gbps 100G-PAM4 OSFP & QSFP112-based

The Quantum-2 NDR InfiniBand and Spectrum-4 SN5600 Ethernet line of OSFP air-cooled, 400Gb/s network switches are based on 100G-PAM4 signal modulation. Although 400Gb/s is the speed

Nov 08, 2025

High Density 50G/400G PAM-4 Capable Rugged

Amphenol's Rugged 256 Channel Ethernet Switch Box is liquid cooled and configurable for system connectivity, speeds, port types, and interoperability with

Jan 31, 2026

Arista OSFP-800G-2FR4 | 800G Transceiver, 2x FR4, 2km Single

Twin-port OSFP design with closed finned top for enhanced thermal management in air-cooled switches - PAM4 (Pulse Amplitude Modulation) signaling for high spectral efficiency

Jun 03, 2026

In-Depth Analysis Report on 800G Switches | FiberMall

800G switches are becoming the vanguard for liquid-cooling adoption in data centers. Cold-plate liquid cooling: Primarily targets high-power ASIC chips

Jul 11, 2025

(up to 500m) OSFP, 2xMPO (APC), 1310nm Single Mode Transceiver

Images are for illustration purposes only. Product manufacturing sites, labels, colors, and dimensions may vary. Transceiver (up to 500m) 1600Gb/s single mode transceiver 8-channels of 200G-PAM4

Sep 03, 2025

& COOLING SYSTEMS COMBINED COMFORT

Comfortmaker packaged all-in-one units are designed for the best durability and comfort. Regardless of your need – packaged heat pump or packaged air conditioner – these units stay enclosed outside

Sep 12, 2025

NVIDIA LinkX 400GbE+NDR Combo Main Portfolio (100G-PAM4)

800G OSFP Switch-to-400G BlueField-3 + ConnectX-7 with QSFP112 LinkX cables, transceivers, ConnectX-7 and BlueField-3 DPUs contain both InfiniBand and Ethernet protocols.

May 06, 2026

PAM4-51-02PD

PAM4 Single-Packaged Air Conditioner System with R-454B Refrigerant Single Phase 2 to 5 Nominal Tons (Sizes 024-060)

May 12, 2026

MMS4X00-NS 800Gbps Twin-port OSFP 2x400Gb/s Single Mode

The parallel single mode, datacenter reach 8-channel (2xDR4) design uses 100G-PAM4 modulation and has a maximum fiber reach of 100-meters using 8 single mode fibers.

Contact Us

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