

# PAM4 Aggregation Switch Original Genuine Product



## 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 interoperation with various high-speed media converters and connectors for system interfacing. Amphenol's 224G high-speed data connectors and cable systems support advanced 224G PAM4 signaling with data rates up to 224 Gb/s per lane, enabling next-generation connectivity for data center, AI/ML, automotive, and industrial platforms while delivering the bandwidth, signal integrity, and. M-Series™ 112Gb/s PAM4 BGA Mezzanine Connector comes with an industry-leading Ball Grid Array (BGA) design and a superior self-aligning and self-leveling solution. With options for a 4-channel configuration (4TX+4RX) or 12-channel half duplex (12TX or 12RX), this high-speed fiber optic module. Jennifer Bernal, Kumarpal Mandoth Clocks and Timing Solutions ABSTRACT Hyperscale data centers and telecommunication market sectors are currently driving the need for high speed serial links using 112G and 224G Pulse Amplitude Modulation with 4-Levels Serializer and Deserializer (PAM4 SerDes). The. The Marvell® Prestera® 8500C series (P/N 98CX85xx) are fully integrated Ethernet switch ASICs optimized for high-bandwidth aggregation/distribution-layer applications in the enterprise. 8 Tbps CX8580 includes 256 high-speed 56G PAM4 SerDes enabling 32 400G Ethernet MAC interfaces. The. By combining the SHF 11104 A EA with a SHF 11221 A DEMUX, the serial data rate is extended to up to 120 Gbps per channel. Just load the full data sheet by clicking the. DOUBLE PERFORMANCE, SAME SIZE, the Amphenol AOP 56Gbps commercial temperature " Quad Embedded Pluggable Transceiver " is designed for highly challenging applications where high performance is crucial. Capable of speeds up to 56Gbps at distances up to 70m from 0 to 70°C.

## Article Content

Jun 17, 2026

network-switch NSComm 400G PAM4 QSFP-DD to

400G PAM4 QSFP-DD to 4×100G QSFP56 Direct Attach Copper Cable (DAC), PVC, Passive, up to 3 m (10 ft), Overview, The NSComm 400G PAM4 QSFP-DD to

Mar 06, 2026

BERT & AWG Instruments | SHF Product Category

The SHF 11220 A PAM-Sampler enhances the capability for true PAM4 BER measurements to a speed of up to 58 GBaud PAM4 (112 Gbps). Just load the full

Mar 30, 2026

BCM87402 400GbE PAM-4 (8:4) with Direct-Drive Product Brief

The Broadcom® BCM87402 is the industry's lowest power single-chip 400GbE PAM-4 PHY transceiver capable of directly driving four lanes of 106-Gb/s PAM-4 at 53 Gbaud, while supporting

Feb 09, 2026

112G and 224G PAM-4 SerDes Clocking for Rapid Data Center

For more details on PAM4 SerDes applications, refer to Understanding Clocking Needs for High-Speed 56G PAM4 Serial Links. The 800G high-speed switches are engineered to meet increasing data

Jul 06, 2025

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 types, and interoperation with various

Nov 17, 2025

Video: Solution enables PAM4-to-NRZ signal conversion for

The AEC cable technology performs the necessary conversions to allow a PAM4-encoded port to interoperate with an NRZ-encoded port. The solution provides support for testing four ports of

Nov 27, 2025

Switch-to-Server

Active Electrical Cables provide a thin, flexible cable gauge, higher reliability, and lower-power profiles to meet 3-meter reach requirement — with a side benefit of

Oct 05, 2025

#### PAM4: The New Modulation Standard

By default, a system based on the lane aggregation of 56Gbps PAM4 serdes may be the ideal physical underpinning for 50GbE, 100GbE, 200GbE, and 400GbE ports—as well as proprietary ports at

Oct 25, 2025

#### Semtech Introduces CopperEdge™ 112G PAM4 Product

The first product in the new portfolio, the GN8112, is a 112G PAM4 quad linear equalizer offering ultra-low power and ultra-low latency for active

Aug 04, 2025

#### M-Series™ | Mezzanine Connectors | PAM4 | Amphenol

M-Series™ 112Gb/s PAM4 BGA Mezzanine Connector comes with an industry-leading Ball Grid Array (BGA) design and a

Aug 07, 2025

#### QSFP-DD 400GBASE-FR PAM4 1310nm 2km

Our smart data system allows effective product management and quality control according to the unique serial number, properly tracing the order, shipment and every part. With a comprehensive line of

May 06, 2026

#### Whitebox Edge Switch (P4): ASIC, PAM4 Retimers

Deep dive into P4 whitebox edge switches: match-action ASIC pipeline, PAM4 SerDes/DSP, retimers, timing, and power/thermal telemetry.

Aug 02, 2025

#### Analyzing 26 to 53 GBd PAM4 Optical and Electrical

PAM4 signaling is being deployed in both single and multichannel systems. A single 26 GBd PAM4 signal can be transmitted on either a SM (single mode) or MM

May 01, 2026

#### Technical Note

The cable can also be used for Nx100G PAM4 impairment, with E100 Chimera between two endpoints, where one of the endpoints can also be a traffic generator. 2  
Convert from Nx100G

Sep 06, 2025

Keysight and Credo Collaborate to Deliver PAM-4-to-NRZ Signal ...

This new environment produces unique challenges relating to the integration of PAM-4-based 400GE and 100GE-capable switch ports with existing 100GE NRZ signaling-based switch port

Oct 24, 2025

What Is PAM4? Understanding NRZ and PAM4 Signaling

What is PAM4? NRZ vs PAM4: both transmit bytes of data over coax, fiber, or PCB trace, but each uses a different method & has pros/cons.

May 26, 2026

QEPT 4-TRX 200G PAM4

QEPT 200G PAM4 is a perfect solution for demanding applications where real-estate and heat dissipation is an issue, whilst allowing the usage of widespread 850nm multi-mode technologies.

Jun 15, 2026

DS560MB410 Low-Power 56-Gbps PAM4 4-Channel Linear Redriver

DS560MB410 Low-Power 56-Gbps PAM4 4-Channel Linear Redriver with Crosspoint Features Quad-channel multi-protocol linear equalizer supporting up to 28-GBd (PAM4) and 32-GBd (NRZ) interfaces

Dec 16, 2025

224G High-Speed Solutions

Operating at 224Gb/s PAM4 signaling per channel, this connector features an optimized footprint ensuring superior signal integrity, with less than

Jul 28, 2025

HL5567 100 Gb/s PAM4 Encoder

The HL5567 PAM4 Encoder is an impedance-matched broadband resistive summing network that combines two equal-amplitude 50 Gb/s NRZ data streams into a

Feb 14, 2026

Presteria® 8500C Series Switches

The Marvell® Prestera® 8500C series (P/N 98CX85xx) are fully integrated Ethernet switch ASICs optimized for high-bandwidth aggregation/distribution-layer applications in the enterprise. The 12.8

Mar 26, 2026

What is PAM4? Signaling Basics, vs. NRZ, and Testing

Understand PAM4 signaling basics and how it differs from NRZ. Expert insights on testing challenges, eye diagrams, and validation for 400G/800G

Jun 13, 2026

32Gbaud PAM4 True BER Measurement Solution Product Introduction

32Gbaud PAM4 True BER Measurement Solution Signal Quality Analyzer MP1800A Series 32Gbaud Power PAM4 Converter G0375A 32Gbaud PAM4 Decoder with CTLE G0376A

May 21, 2026

PAM4 Modulation | How is Transforming Optical

Short-distance 400G networking is made possible by PAM4 modulation scheme, which is set to revolutionize optical networking.

Nov 07, 2025

PAM4-51-02PD

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

Feb 21, 2026

50G QSFP28 PAM4-Genuine optics 25G-200G series products.

The MTRQ-1LA02 Transceiver is a high performance, cost effective module for serial optical data. The MTRQ-1LA02 transceiver is designed to use in 50 Gigabit Ethernet links over 10km single mode fiber.

Mar 08, 2026

PAM4 Signaling in High Speed Serial Technology: Test ...

Since fiber optic systems can operate above 25 Gbd with PAM2-NRZ the switch is less urgent—and this fact is reflected in the decreased rate of optical PAM4 development. For optical systems, the

Apr 14, 2026

Polaris 200G/400G PAM4/NRZ Retimer and Gearbox

The Marvell Polaris PAM4 DSP is a next generation solution for cloud data center, high-performance computing, and AI optical transceivers. Polaris supports multiple industry standard protocols up to

Sep 17, 2025

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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

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[M-Series™](#) | [Mezzanine Connectors](#) | [PAM4](#) | [Amphenol](#)

It incorporates a next-generation differential pair contact design, enabling exceptional performance of up to 56Gb/s NRZ and 112Gb/s PAM4. High

Mar 12, 2026

[Network Switch 400G PAM4 QSFP-DD to 8x50G SFP56 Direct Attach](#)

The NS 400G PAM4 QSFP-DD to 8x50G SFP56 Direct Attach Copper Cable (DAC) is a high-density breakout copper solution designed for 400G-to-8x50G Ethernet applications in large-scale data

Oct 31, 2025

[BCM78909 51.2-Tb/s Multilayer CPO Switch with 100G SerDes Product](#)

The device family features a maximum of 64 integrated Peregrine SerDes cores, each with eight integrated 106-Gb/s PAM4 SerDes transceivers and associated physical coding sublayer (PCS). The

Nov 21, 2025

[PAM4 Basics: Modulation, Signaling and Encoding](#)

Explore The Fundamentals of PAM4 Modulation, Signaling and Encoding. Plus, Compare PAM4 to NRZ and Find Helpful Eye Diagrams. Visit To

Jul 28, 2025

[An Introduction to 224G System Architecture](#)

224G PAM4 is a high-speed data transmission technology that utilizes a PAM4 modulation scheme to achieve a data rate of 224 Gigabits per second. 224

Feb 23, 2026

[PAM-4-to-NRZ Signal Conversion Test Solution for Data](#)

This new environment produces unique challenges relating to the integration of PAM-4-based 400GE and 100GE-capable switch ports with existing

Apr 28, 2026

### PAM4 Demystified: The Basics of Four-Level Pulse

PAM4 is a four-level pulse amplitude modulation method that transmits two bits per symbol, doubling data rates for high-speed networks.

## Contact Us

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