

DAC high-speed cable SFP



AI Overview

Certified DAC High-Speed SFP cables are factory-terminated copper assemblies designed for short-range, high-speed connections, available in passive and active versions supporting data rates from 1Gbps up to 1.6Tbps.

Overview Direct Attach Copper (DAC) cables with SFP connectors are high-speed twinax copper cables with SFP modules permanently attached at both ends, used to connect servers, switches, and storage devices in data centers. They are plug-and-play, requiring no additional transceivers, and are highly cost-effective compared to fiber optic solutions. DAC cables are ideal for short-range connections, typically within the same rack or between adjacent racks.

Types of DAC Cables

- Passive DAC:** Contains no electronics, relies solely on copper for signal transmission. Typical reach is 1-5 meters, offering low latency, zero power consumption, and minimal heat generation. Passive DACs are the most economical option for in-rack connections.
- Active DAC:** Includes embedded electronics such as retimers or redrivers to maintain signal integrity over longer distances, extending reach up to 9-15 meters. Active DACs are slightly more expensive and consume less than 1W per cable, making them suitable for inter-rack connections or high-density deployments.

Performance and Specifications

Data Rates: DAC cables support a wide range of speeds, including 1Gbps, 10Gbps, 25Gbps, 40Gbps, 50Gbps, 100Gbps, 200Gbps, 400Gbps, 800Gbps, and 1.6Tbps depending on the cable type and form factor.

Form Factors: Available in SFP, SFP+, QSFP, QSFP+, OSFP, and SFP-DD modules, supporting single and double density configurations.

Cable Lengths: Typically range from 0.5m to 5m for passive DACs, with active DACs extending up to 10-15m.

Customization: Options include wire gauge (AWG), breakout configurations, low-smoke zero-halogen jackets, pull-tab colors, and EEPROM programming for traceability and performance optimization.

Applications

Data Centers: High-speed interconnects between servers, switches, and storage arrays. H...

Article Content

SFP-DAC Series

The AMG SFP-DAC-10G series are industrial high speed Direct Attach Cables (DAC) offering transmission of 1Gb or 10Gb Ethernet data using passive Twinax

SFP-DD DAC Cable Assemblies | High Speed Input

Amphenol's SFP-DD cable assemblies are designed to support applications for Ethernet. The Amphenol SFP-DD products offer an ultra-high

Hilink Optics QSFP QSFPDD OSFP 10G SFP

If you have any questions about Hilink Optics CWDM DWDM QSFP QSFPDD OSFP 10G SFP transceivers, we will give the professional solutions to you.

Volet Direct Attach Copper (DAC) Cables

The Volet DAC cable product family is comprised of cable assemblies with Small Form-factor Pluggable (SFP), Quad Small Form-factor Pluggable (QSFP) and Octal Small Form-factor Pluggable (OSFP)

What Is DAC Cable, Direct Attach SFP+ Cable Passive

High speed direct attach cable (DAC) assemblies, or twinax cable assembly used in data centers. It provides a lower cost, higher density alternative cabling solution

Network Cards, Adapters, and NICs Explained: Types

Learn what network cards, adapters, and NICs are. Understand wired vs wireless, PCIe vs USB, 1G-100G speeds, RJ-45 vs SFP+, installation

Axiom DAC SFP+ 10G 1M Active Optical Cable - TRINCOS

Axiom DAC SFP+ 10G Active Optical Cable, 1-meter length for high-speed data transmission. Ensures reliable connections in data centers. Order today.

What is the difference between DAC and SFP+?

DAC cables are copper-based cables used for short-distance, cost-effective connections, while SFP+ refers to the form factor of transceiver modules that can support various media, including

High Speed DAC Cable 40Gbps To 4x SFP+ Direct Attach Copper Cable

Experience seamless network connectivity with our 40Gbps to 4SFP+ DAC Cable, for high speed data transfer and optimal performance in demanding environments. Crafted from materials, this 1meter

SFP+ DAC cables

Aruba and other HPE DAC cables are passive devices. If your deployment calls for Active DACs, these are not compatible. If an Active DAC is required, an

SFP+ DAC Explained: Passive vs Active, Lengths, and

An SFP+ Direct Attach Copper (DAC) is a twinax copper cable with SFP+ connectors permanently attached at both ends. It is designed for short

High-Speed Pluggable I/O

Molex empowers customers with scalable high-speed pluggable input-output (I/O) solutions that help address next-generation thermal and performance needs for

9 common DAC Cables that Make Your Networking

DAC cable is a high-speed copper twin-ax assembly with pluggable connectors on either end. They can usually be divided by form factor: SFP+

10G SFP+ Twinax DAC 3M

Find many great new & used options and get the best deals for 10G SFP+ Twinax DAC 3M - 10GBASE-CU Passive High-Speed Copper Cable 1 Piece at the best online prices at eBay!

AddOn DAC-SFP-10GE-5M 10G SFP+ Transceiver Module - TRINCOS

Data center environments demanding high-speed connectivity benefit most from the AddOn Networks DAC-SFP-10GE-5M-AO. This 10G SFP+ passive direct-attach copper cable connects high

Axiom DAC SFP 25G Optical Cable 1M SFP28 Male - TRINCOS

Data centers and telecommunications setups demanding high-speed data transmission require reliable connectivity between SFP28 compliant devices. The Axiom DAC SFP 25G Optical Cable is designed

10Gtek 10GbE SFP+ DAC 3M

Find many great new & used options and get the best deals for 10Gtek 10GbE SFP+ DAC 3M - Passive Copper Twinax Cable for High-Speed Links at the best online prices at eBay! Free shipping for many

10G SFP+ Copper Twinax 3M

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High-Speed 10G SFP+ DAC Cable 3M

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AddOn Networks JNP-SFP-25G DAC Cable 3.5m SFP28 Fiber Optic

Data centers and enterprise networks require high-speed connectivity, making the AddOn Networks JNP-SFP-25G DAC cable an essential component for ensuring reliable data transfers. This 3.5

10G SFP+ DAC Twinax Cables: Benefits, Types & Use

Learn how 10G SFP+ DAC Twinax cables support low-cost, high-speed connections in data centers. Compare active vs. passive options for

Direct Attach Copper (DAC) Cables

High-speed Volex Direct Attach Copper (DAC) cables deliver reliable, energy-efficient data transfer for data centers. Customizable, tested and ready to deploy.

Axiom QFX-SFP-10GE-DAC 3M SFP+ Direct Attach Copper Cable

In high-speed networking environments, reliable connectivity between devices is essential. The Axiom QFX-SFP-10GE-DAC 3M Direct Attach Copper Cable is designed for seamless connections,

Contact Us

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