EXO™ 1RU Modular Patch Panel & Cassette Solution

Overview

EXO™ is an advanced patch panel platform that enables flexible breakout configurations from high-speed QSFP-DD and OSFP modules down to individual SFP28/SFP56 connections. This modular 1RU chassis consolidates fiber (LC, duplex LC, MPO-12, MPO-16) and copper connections within a single solution, optimizing data center density and scalability.

Ideal for edge data centers, enterprise networks, and colocation environments requiring equipment connections across multiple adjacent racks, EXOTM provides seamless integration with both legacy and next-generation infrastructure. The chassis supports flexible port densities up to 48 connections—accommodating duplex LC (single-mode and multimode), CAT6A/CAT8 RJ45, or high-density MPO adapters for 100G, 400G, and 800G applications.

Intelligent Data Path Management

The EXO™ chassis supports up to 48 high-speed ports with dynamic breakout capabilities. Using breakout cables, high-bandwidth connections are split into multiple lower-speed data lanes—for example, 400G QSFP-DD to 4x100G or 800G OSFP to 8x100G—that enter the modular hub configuration.

The platform's lane shuffling architecture allows any data lane from rear-mounted devices to be directed to any front-mounted device through simple feed-through patching. This passive cross connect design enables flexible reconfiguration without active electronics, reducing power consumption and simplifying moves, adds, and changes in dynamic network environments.



Key features

- **Modular Architecture** – Each cassette module provides 3x3 high-speed port connectivity for up to 12 total ports (12 front-facing, 12 rear-facing)
- **Dual-Sided Access** – Front and rear rack access enables efficient cable management and servicing from either direction
- **Integrated Cable Management** – Front door opens 180° to reveal clearly labeled routing guides for organized deployments
- **Pre-Qualified Breakout Cables** – Includes factory-tested breakout cables (400G to 4x100G, 100G to 4x25G) for plug-and-play deployment
- **High-Density Passive Cross connect** – Up to 48 feed-through ports per chassis (12 per cassette x 4 cassettes) enable flexible lane assignments
- **Dynamic Path Reconfiguration** – Individual data lanes can be rerouted to create multiple redundant paths without service interruption
- **Standards Compliant** – Meets SFF-8402, SFF-8665, and current industry specifications for high-speed interconnects
- **Zero Power Consumption** – Fully passive design adds no heat load or cooling requirements to the data center
- **Mixed Media Support** – Accommodates multiple connection types in a single chassis:
    - RJ45 (CAT6A/CAT8 copper)
    - SFP28/SFP56 (25G/50G/100G)
    - Duplex LC (single-mode and multimode fiber)
    - MPO-12/MPO-16 (high-density fiber)



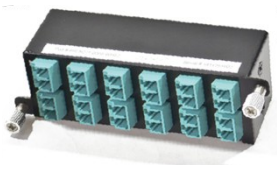
LC Cassette

MTP Feedthrough



6x MTP/MPO 40Gbe Pass-Through Adapter plate

SFP+ Cassette



LC-LC Feedthrough

RJ45 Feedthrough

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EXO Mini Patch Panel

Connectivity Options

- **Flexible Modular Design** – Mix and match connection types within the same chassis: MTP/MPO, duplex LC fiber, CAT6A/CAT8 copper, and MPO-12/MPO-16 feed-through adapters
- **Scalable Port Density** – Configure up to 24 ports in any combination of duplex LC (single-mode/multimode), CAT6A/CAT8 RJ45, and high-density MPO adapters
- **Space and Energy Efficient** – Compact 1RU form factor with fully passive architecture delivers zero power consumption and no cooling requirements
- **Future-Ready Infrastructure** – Supports current and emerging speeds from 10G to 800G through compatible adapter modules and breakout configurations

Specifications

Item	Description
EXO Connectivity Hub	
cassettes	4, SFP+ through ports on each cassette for a total of up to 48 ports
height	1 RU (1.75 in., 43.5 mm)
width	482 mm
depth	96 mm
weight	3 kg net; 3.3 kg gross (when loaded with 4 cassettes)
signal integrity (hub with cables)	compliant with SFF-8431
temperature	-40°C to 75°C storage 0°C to 40°C operating
access	front and rear
power	no power required
SFP+ Cables	
quantity	24 cables prequalified for EXO SFP+ hub
type	SFP+ to 4x SFP+ passive breakout copper cables
size	24 AWG
length	2.5 meters
min sustained bend	22.5 mm radius

