# EVO™ 1U and 2RU Modular Patch Panel & Cassette Solution

## Overview

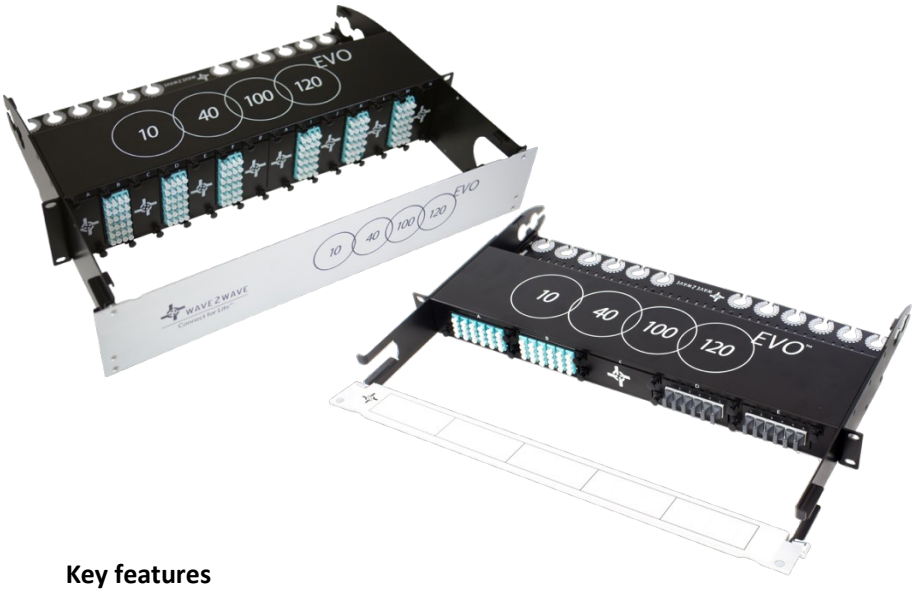
EVO™ is an advanced connectivity platform that enables flexible breakout configurations from high-speed QSFP-DD and OSFP modules down to individual SFP28/SFP56 connections. This modular chassis is available in 1U and 2U configurations. It consolidates fiber (LC, duplex LC, MPO-12, MPO-16) and copper 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 168 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 168 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 12x12 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 168 feed-through ports per chassis (12 per cassette x 14 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)

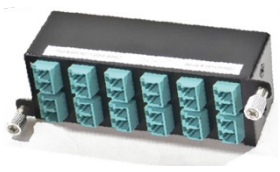


LC Cassette

MTP Feedthrough



SFP+ Cassette

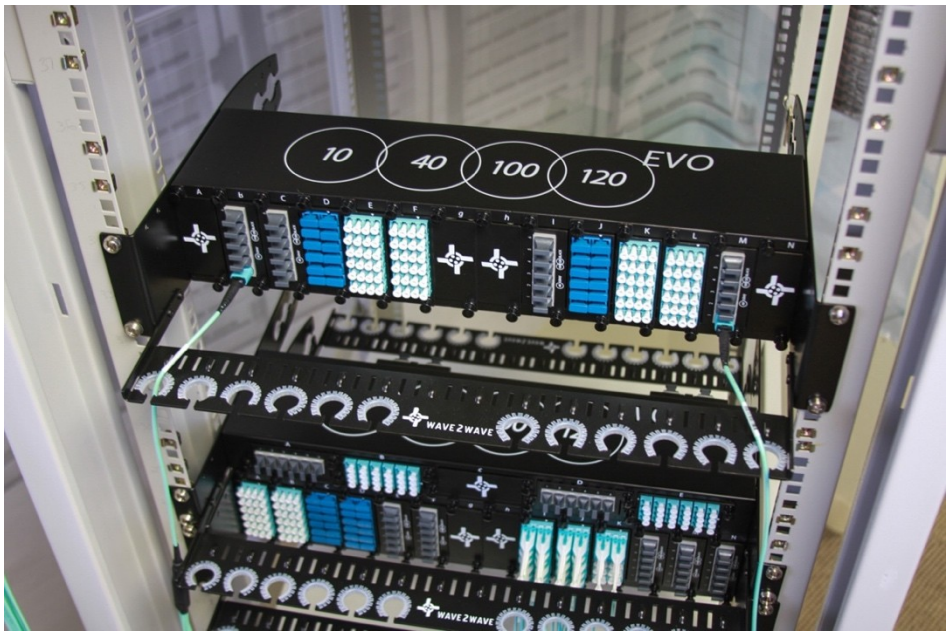


6x MTP/MPO 40Gbe Pass-Through Adapter plate

RJ45 Feedthrough

LC-LC Feedthrough

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## 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 1458 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 | 14, SFP+ through ports on each cassette for a total of up to 168 ports |
| height | 2 RU (3.5 in., 88.9 mm) and 1 RU Units |
| 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<br>0°C to 40°C operating |
| access | front and rear |
| power | no power required |
| **SFP+ Cables** | |
| quantity | 168 cables for EVO |
| type | SFP+ to 4x SFP+ passive breakout copper cables |
| size | 24 AWG |
| length | 2.5 meters |
| min sustained bend | 22.5 mm radius |

