

# 24-port high-density MTP fiber optic distribution frame



## AI Overview

A 24-port high-density MTP fiber optic distribution frame provides compact, scalable, and efficient fiber management for high-speed networks, supporting seamless transitions between MTP/MPO and LC/SC connections.

**Overview** A 24-port high-density MTP fiber optic distribution frame (ODF) is designed to consolidate fiber connections in a compact footprint, typically 1U or 2U rack units, while supporting high-density network environments such as data centers, telecommunications, and enterprise networks. These frames are optimized for 40G and 100G networks, providing a migration path for future high-speed upgrades.

**Key Features**

- High-Density Connectivity:** Supports 24-fiber MTP connections on the rear and 24 LC ports (12 duplex) on the front, allowing efficient conversion between MTP/MPO trunk cables and LC/SC patching.
- Compact Design:** Shallow depth (around 7") and slim profile enable installation in standard 19" racks, conserving space while maintaining accessibility.
- Cable Management:** Integrated front and rear cable management trays, along with clip-in panels, facilitate organized routing, easy maintenance, and future expansion.
- Splice and Adapter Support:** Many frames include splice cassettes and support fusion splicing, allowing both distribution and termination in the same panel.
- Scalability:** Frames can be ganged together or expanded with additional cassettes to increase port density, supporting up to 288 LC ports in some modular configurations.
- Durable Construction:** Typically made from cold-rolled steel with corrosion-resistant coatings, ensuring long-term reliability in demanding environments.

**Applications**

- Data Centers:** Ideal for high-density fiber management, reducing floor space requirements and simplifying patching for large-scale networks.
- Telecommunications:** Supports backbone and distribution networks with high-speed MTP/MPO trunk connections. E...

## Article Content

### Optical Distribution Frames (ODF)

Explore optical distribution frames (ODF) with efficient distributed chassis solutions at CommScope

madagascar-fiber-optic-cable-manufacturer Manufacturer/Producer

Matching products High-Fiber Optic Cabling System - PreCONNECT® STANDARD 19" 3 HE Distribution Frame | Fiber Optic Distributor SMAP-G2 HD - 19" Distribution Enclosure | High Port

### ODF Explained: Types, Architecture, Management

This guide provides a comprehensive engineering perspective on ODFs—beyond the basic “what is an ODF” explanation—covering structural design, fiber

### Gcabling 1U 24 Port Fiber Optical Distribution Frame

Gcabling is a leading fiber optic patch panel manufacturer & supplier. We can manufacture and supply a wide range of ODF with 20+ years of experience.

### Optical distribution frames and patch panels

Specifically developed to manage high-density cabling systems in data center environments, this rack-mountable MTP patch panel supports up to 144 fibers within a space-saving 1U profile.

### Optical Distribution Frame (ODF): High-Density Rack

OTRANS manufactures high-density optical distribution frames (ODF) for telecom, 5G, and data centers. Rack-mount fiber distribution frames with 24-96+ cores,

### HDX Fiber Distribution Frame | Leviton Network Solutions

The HDX Fiber Distribution Frame is a main cross-connect or interconnect patching frame for all fiber channels in the data center. One frame consolidates patching

### ODF Fiber Optic Patch Panel, ODF Unit Box Manufacturer/Supplier

ODF optical distribution frame is a high-density, high-capacity design product. The fiber distribution frame has the characteristics of beautiful appearance, reasonable distribution, easy search, easy

### ODF: Optical Distribution Frame

ODF, or Optical Distribution Frame, is a high-capacity, high-density frame used for fiber optic cable connection, distribution, dispatch, and management.

### Centrix® System | Corning

A fiber management system in a single, dual, or quad configuration frame that combines the highest manageable density and is easily scalable with SC, LC,

All Kinds of Fiber Optic Patch Cords – SC, LC, FC, ST

Learn about SC, LC, FC, and ST fiber optic patch cords, their uses in FTTH, telecom, and data centers, and how to choose the right type.

MPO/MTP Fiber Optic Patch Panels

MPO/MTP fiber optic patch panel is the most economical and cost-effective high-density fiber solution. Each MPO optical fiber distribution frame/fiber optic patch

1U/2U Ultra-High Density MPO/MTP to LC Patch Panel

K& M manufactures high-performance 1U/2U Ultra-High Density MPO/MTP to LC Patch Panel for applications, providing reliable quality, OEM/ODM customization, and professional support for global

BISMON 24 Port Fiber Optic Distribution Frame SC Port

The ODF rack mount fiber optic enclosure is designed to provide a distribution point to feed a high capacity of fiber optic cables to other closets or zones. It can

Optical Distribution Frame, 24 Port Fiber Optic ODF

The 24 port fiber optic ODF unit is the convenient cable management for fiber connections, supervising and maintenance. The front panel is with 24 ports and this fiber optic ODF can fit different kinds of

OPT-X HDX Unity Global Fiber System | Leviton

Leviton's premier global fiber optic cabling system for data centers features high and ultra-high density patching solutions and delivers ultra-low-loss performance for

Fiber Optic Backbone Office Design: 2026 Guide

Fiber Optic Backbone Office Design: 2026 Guide TL;DR: A fiber optic backbone is a high-capacity cabling system connecting a building's main and intermediate distribution frames across

Fiber Panels, Modules & Cassettes

Explore CommScope's efficient and scalable fiber splice panels designed for seamless connectivity. Accommodating LC, SC, and MTP/MPO connectors,

Products

04 DWDM Dual Fiber Mux/DeMux 10 variants available M Module, 100GHz, 1310 Port, Monitor

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#### Optical ODF 24-Port ODF Fiber Optic Distribution Box

It is made of 1U/2U 19" cold-roll steel box, with plastic splice tray inside, suitable for pigtail, ribbon and bunch cable distribution. And it has metal sliding

#### HDX Fiber Distribution Frame

A high-density fiber optic frame that prepares the data center for growth, minimizes patching footprint, reduces installation time, and saves you money. HDX The Leviton high-density HDX Fiber

#### SJ-ODF-24 ODF 24 Core, 24 Port ODF

Fiber Optical Distribution Frame is an optical distributed networking system that provides a high-speed digital connection to all network interface port devices

#### LP-F194BBKXX 24 Port Rack Mounted Optical Distribution Frame

The 24 port Optical Distribution Frame (ODF) is designed as a reliable fiber optic organization and distribution product, it is of the sliding type, convenient for operations and maintenance. The 24 port

## Contact Us

For more information, pricing, or custom solutions, please contact us:

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