24-core ODF optical distribution unit



Overview

OTRANS manufactures high-density optical distribution frames (ODF) for telecom, 5G, and data centers.

Key Takeaways

A 24-core ODF unit is a modular optical distribution frame designed for fiber splicing, termination, and management, supporting up to 24 optical fibers in a compact, rack- or wall-mounted configuration.

Overview

A 24-core ODF serves as a central hub for fiber optic cable management, enabling the termination, splicing, and distribution of optical fibers in telecom rooms, data centers, FTTH networks, and 5G base stations. It integrates fiber storage, patching, and cable connections into a single unit, ensuring organized and efficient network deployment.

Key Features

Core Capacity: Supports 24 optical fibers, with modular trays allowing expansion or replacement. Fiber Management: Includes splice trays, pigtail storage, and adapter panels for SC, LC, FC, or ST connectors. Construction: Typically made of cold-rolled steel with electrostatic painting, with ABS plastic splice trays for durability.

Mounting Options: Can be rack-mounted (19-inch standard) or wall-mounted for space-limited environments. Cable Compatibility: Handles single fiber, bundle, and ribbon fiber cables, accommodating both bundle-type and ribbon-type fibers. Accessibility: Front and rear covers can be opened for easy cable management and maintenance.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Bend Radius Protection: Designed to maintain a minimum bend radius (≥30 mm) to prevent fiber damage and signal loss. ApplicationsFTTH Networks: Efficiently manages fiber connections from central office to subscriber premises. Data Centers and Telecom Rooms: Provides high-density fiber termination and patching for backbone and distribution networks.

5G Base Stations: Supports optical fiber aggregation and distribution for BBU and remote modules. LAN/WAN and CATV Systems: Facilitates organized fiber routing and connection management.

Advantages

Modular Design: Allows easy expansion and replacement of splice trays or adapters.

High-

Density Management: Supports multiple fibers in a compact footprint, optimizing space usage. Ease of Maintenance: Slide-out trays and front/rear access simplify splicing, patching, and troubleshooting. Durability and Safety: Steel construction and bend radius protection ensure long-term reliability and prevent fiber damage.

Considerations

Future Expansion: Choose ODF units with extra tray slots to accommodate network growth. Environmental Rating: Typically designed for indoor use; ensure compliance with dust, fire, and temperature requirements. Connector Type: Verify compatibility with existing network adapters (SC, LC, FC, ST) before deployment.

A 24-core ODF unit is an essential component for efficient fiber optic network management, providing a reliable, organized, and scalable solution for both small and medium-sized optical distribution systems.

Article Content

ODF-E-24

Fiber Management Tray also called ODF Distribution Box, Integrated Splicing and Distribution ODF. It is mainly used for cable inlet, grounding and fixing and the splicing between the terminal end and

24 96 Cores Optical Distribution Frame Unit, ODF Unit Box

Overview YODF-U Type1 Optical Distribution Frame Unit is also known as ODF Unit Box, it has optical cable fixing and protection function, optical cable final connection function, wiring function, and

Optical Distribution Frame (ODF): High-Density Rack

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

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

FTTH ODF 24 Cores, 2u, 19" ODF Optical Distribution Box

It is mainly used for fiber fusion splicing of optical cable terminals, installation of optical connectors, adjustment of optical paths, storage of excess pigtails, and protection of optical cables.

ODF Unit 24 Core Optical Fiber Distribution Frame / Power

Quality ODF Optical Distribution Frame manufacturers & exporter - buy ODF Unit 24 Core Optical Fiber Distribution Frame / Power Distribution Frame from China manufacturer.

24 Core ODF

24 Core ODF Optical Distribution Frame (ODF) is a device used in fiber-optic telecommunications networks to connect, manage and distribute optical fibers from incoming and outgoing cables. It acts

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

ODF 24 Core unit is specially designed for the optical fiber communication equipment room. ODF 24 Core has the function of cable fixation, protecting fiber

Comprehensive Engineering Guide to the 12-SC Fiber ODF Distribution

In FTTD deployments, a wall-mounted 12-SC distribution box acts as the zone consolidation point. Located in a telecommunications closet or directly on the factory floor, a 12-core

Coax Cable Distribution Panel: Key Features & Uses

Discover the essential features of a coax cable distribution panel. Learn how it enhances signal quality, supports multiple devices, and simplifies home or office setup. Click to find top-rated

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

UnitekFiber offers a variation of ODF optical fiber distribution frames, such us 24 cores, 36 cores, 48 cores, 72 cores, 96 cores and 288cores.

Optical Distribution Frame (ODF): What It Is, How It Works, and Why It ...

An Optical Distribution Frame (ODF), also known as a fiber optic patch panel, is a specialized hardware unit that centralizes fiber optic cable connections. Acting as a “traffic hub” for

4 Core Fiber Distribution Box: Key Features & Uses

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Discover the 4 core fiber distribution box benefits for FTTH networks. Find reliable suppliers, compare specs, and click to explore top-rated options with IP65 waterproofing and tool

ODF 12 Core

Shop our range of ODF 12 core products for reliable fiber optic distribution. Find durable, high-quality solutions for indoor and outdoor applications.

6 Core Fiber Optic Patch Panel

Discover high-quality 6 core fiber optic patch panels, available from $1.5 to $100. Ideal for FTTH passive components, purchase from just 1 unit. Suitable for resale and ideal for distributors.

HTB8067 24 Port Indoor Fiber Optic Distribution Box for

DESCRIPTION The HTB8067 24 Port Indoor Fiber Optic Distribution Box is designed for clean, efficient cross-connection between outdoor backbone

Fiber Optical Distribution Frame | 24 Port ODF | MJADOM

24 Port ODF Fiber Optic Distribution Unit ODF-RF24A Publisher: MJADOM Author: Andy RGP-ODF-RF24A Series Rack-Mount Fiber Optic Distribution Unit also called Fiber Optical Distribution Frame

ODF-E-24 2U optical distribution frame 24 Cores -AOA Tech

24 Cores Optical Distribution Frame Overview Fiber Management Tray also called ODF Distribution Box, Integrated Splicing and Distribution ODF. It is mainly used for cable inlet, grounding and fixing and

ODF 24 Core Fiber Optic Distribution Frame

ODF 24 Core is a high-density fiber optic distribution frame designed to meet the ever-increasing demands of today''s network systems. This product is ideal for data centers, server rooms, and other

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Contact Us

Continue your research online:

Website: https://cgweb.co.za
Technical inquiry: https://cgweb.co.za/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved