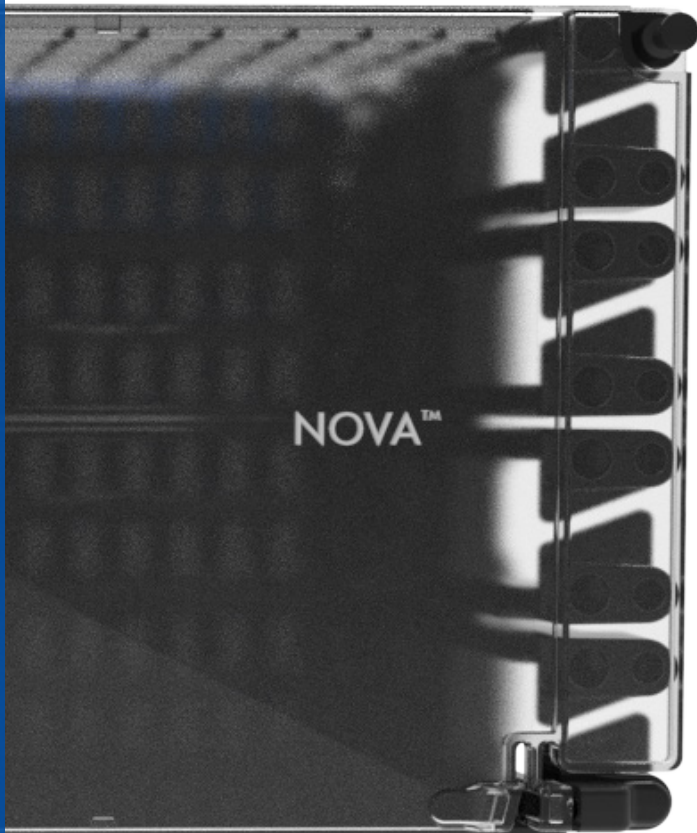
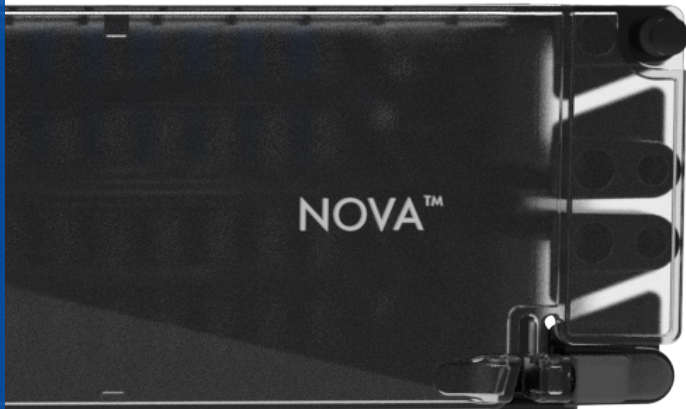


NOVA™
Platform
Overview



CLEARFIELD

NOVA™

Empowering Data Centers with Fiber Excellence

Clearfield's **NOVA platform** redefines fiber connectivity for modern data centers and enterprise networks. At the heart of this breakthrough is the **NOVA Cassette** — a modular, field-friendly solution that simplifies deployment, reduces downtime, and scales effortlessly from the **meet-me room to the top of the rack**.

Whether you're building out a **hyperscale data center**, a **co-location edge**, or a **high-demand enterprise network**, NOVA makes fiber infrastructure simpler, smarter, and ready for tomorrow.



Unified, Modular Fiber Platform

Standardize on one platform across your MMR, MDA, ToR, and edge locations — simplify operations, inventory, and training.



High-Density, Scalable Design

Maximize rack space and minimize expansion disruption with future-proof capacity.



Field-Optimized for Fast Deployment

Reduce installation time by up to 40% while improving first-pass yield and network reliability.



Purpose-Built for Data Center, Enterprise & Edge

Nova provides a single solution from core to edge — adaptable across diverse network environments.



NOVA Platform Overview



1

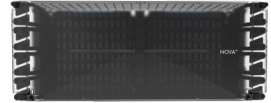
Cabinets & Racks

Server and network cabinets available in various sizes, as well as 4-post racks.

Panels & Cassette

NOVA HD Panels available in 1RU, 2RU, and 4RU configurations, including tie panels and compatibility with NOVA Cassettes.

2



3

Cable Assembly

Pre-terminated trunk cables and fiber patch cords.

Wall Mounted Box

Three sizes of wall-mounted boxes utilizing the Clearview® Cassette.

4



NOVA Racks and Cabinets

The NOVA HD 4-Post Rack and NOVA Server/Network Cabinet are engineered to deliver a versatile, high-performance foundation for modern IT and fiber infrastructure. Built with a combination of robust steel framing (4-Post Rack) and streamlined aluminum-extruded construction (Server/Network Cabinet), the NOVA platform provides exceptional durability, stability, and a clean, professional appearance suitable for Central Office, Enterprise, and Data Center environments.



Server & Network Cabinets

Welded, Patented, Aluminum Extrusion Frame

- Lightweight 6063 T5 welded rugged frame
- Dynamic weight load 2,000 lbs;
- Static weight load 3,000 lbs
- HD capacity options available
- **Server:** 24" Overall frame width to fit on data center floor tiles
- **Network:** 28.33" Overall frame width
- Available in different RU options
- 36", 42", 45" depths available
- Custom sizes available upon request
- Textured powder coat finish



4-Posts Racks

3 Pairs of Fully Adjustable Vertical Mounting Rails

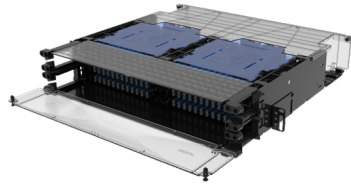
- 19", 23" rack mount available
- Standard square hole mounting
- Optional round .281 hole mounting and tapped 10-32 and 12-24 mounting

Fully Welded, Patented, Aluminum Extrusion Frame

- Lightweight 6063 T5 welded rugged frame
- Dynamic weight load 2,000 lbs;
- Static weight load 3,000 lbs
- HD Capacity options available
- Available in many standard heights, widths, and depths
- Heights available up to 58U+ and depths up to 58"
- Heavy duty caster base with adjustable levelers
- Textured powder coat finish

NOVA HD Panel

The NOVA High Density (HD) Fiber Panel provides interconnect or cross-connect capability for up to 384 LC high-density ports, delivering a scalable fiber management platform for enterprise networks, data centers, and central office deployments. The NOVA HD Panel accepts NOVA Cassettes, including versions with integrated optical components and NOVA Tie modules, to support a wide range of network architectures and deployment strategies.



NOVA HD Panel is a high-density panel with a low real estate footprint. The NOVA HD Panel is available in three sizes; 1RU with capacity for 96 LC ports (1.75"), 2RU with 192 LC ports (3.5"), and 4RU 384 with LC ports (7"). Building from the legacy Cleaview Cassette, the NOVA HD Panel utilizes the NOVA Cassette to provide the user with superior fiber access, strain relief options, and clear port labeling. Panels are designed for 19" mounting or 23" mounting option.



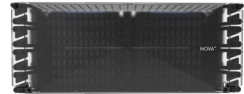
1RU

- 96 fiber with LC
- 4 NOVA Cassettes
- 1.75" H (44.45mm)



2RU

- 192 fiber with LC
- 8 NOVA Cassettes
- 3.5" H (88.90mm)

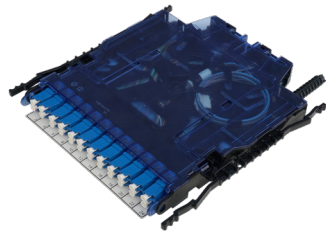


4RU

- 384 fiber with LC
- 16 NOVA Cassettes
- 7" H (177.80mm)

NOVA Cassette

NOVA builds on the Clearview Cassette legacy, providing scalability and flexibility within multiple configurations and a toolless installation. The new integrated sliding rails remove the need for additional parts and tools during installation and maintenance. Additionally, the newly integrated designation cards in each cassette offer improved port designation accuracy.



NOVA Cable Assemblies

Clearfield® high-density trunk cable assemblies provide a low-loss, multi-fiber connectivity solution for data centers, central offices, and headend environments.



Pre-terminated Trunking

- Fiber counts range from 12 to 288
- Multimode and singlemode fiber types: OM3, OM4, OM5 and OS2
- Terminations are designed and tested to Telcordia GR-1435 and ANSI/TIA-568.3-D
- Fiber bundles are individually jacketed in 2mm or 3mm sub-units
- Bend-improved fiber allows tighter cable bends for routing and slack storage.



Jumpers

- Terminations are designed and tested to meet TIA/EIA and IEC intermateability standards
- MPO cable assemblies designed, tested and certified to GR-1435
- Supports Singlemode and Multimode cables and connectors
- 2,4, 8, 12 and 24 fiber terminations
- Terminated MPO to MPO, MPO to non-terminated stub and MPO to multi-fiber breakout terminated SC and LC to LC

NOVA HD Wall Mounted Boxes

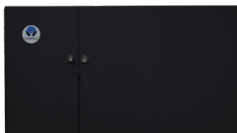
The NOVA High Density (HD) Indoor Wall Boxes are purpose-built for Enterprise and Data Center environments requiring high-density fiber management in a compact footprint. Designed around the NOVA Cassette platform, this wall box provides a scalable, plug-and-play solution optimized for patch-only or interconnect applications.

Supporting 42-288 fibers terminated with LC connectors, the HD boxes offer flexible routing and secure fiber protection for mission-critical network infrastructure.



72

- Up to 72 fiber with LC
- Dimensions: 10.34" H x 15.00" W x 5.20" D



192


- Up to 192 ports LC
- Dimensions: 14.97" H x 27.31" W x 10.78" D





288

- Up to 288 ports LC
- Dimensions: 23.59" H x 24.56" W x 8.35" D

Infrastructure Use-Case Matrix

Environment	Platform Components	Utilization
 <p>Data Centers</p>	Racks & Cabinets Server + network + 4-post	4-Post Racks – For high-density fiber distribution areas Network Cabinets – For TOR/MOR switches and patching Server Cabinets – Main compute/storage racks
	Panels 1RU/2RU/4RU high-density	1RU – TOR patching 2RU – Intermediate distribution 4RU – High-density MMR/IDF fiber areas
	Cable Assembly MPO-focused	MPO Trunks – Standard for 40G/100G/400G structured cabling LC Trunks – Legacy or low-density areas MPO Jumpers – For high-speed links (spine-leaf) LC Jumpers – Server NICs or older switches
	Wall Mounted Box Limited	Used only in MMR or low-density side rooms

Environment	Platform Components	Utilization
 <p>Enterprise Networks</p>	Racks & Cabinets Network & server, some 4-post	4-Post Racks – Open patching in MDF/IDF Network Cabinets – For switches and patch panels (most common) Server Cabinets – For server rooms or consolidated IT spaces
	Panels 1RU/2RU	1RU – Typical for small telecom/IDF closets 2RU – For campus backbone or moderate fiber counts
	Cable Assembly MPO/LC mix	MPO Trunks – Building or campus backbone LC Trunks – Panel-to-switch connections MPO Jumpers – Needed when using 40/100G optics LC Jumpers – The standard for most enterprise switches
	Wall Mounted Box Yes	Used in remote IDFs or building entry points

Environment	Platform Components	Utilization
 <p>Central Office</p>	Racks & Cabinets 4-post (primary), network	Post Racks (Primary) – Best for large fiber distribution frames, open access, high cable volumes Network Cabinets – For transport gear (DWDM, OTN, routing) that requires protection
	Panels 2RU/4RU high-density	1RU – Small local patch points 2RU – Medium-density areas 4RU – Most used; ideal for high-density ODF shelves
	Cable Assembly MPO/LC Trunks & Jumpers	MPO Trunks – High-fiber backbone between frames/rooms LC Trunks – To network equipment or legacy sections MPO Jumpers – High-density patching LC Jumpers – Common for transport/OLT equipment
	Wall Mounted Box Yes	Used at entrance points or small distribution areas



CLEARFIELD

Learn more at www.SeeClearfield.com

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Clearfield, Inc. designs, manufactures and distributes fiber optic connectivity and management products, helping service providers reduce the high costs associated with a fiber optic network to deliver the mobile, residential and business services customers want.