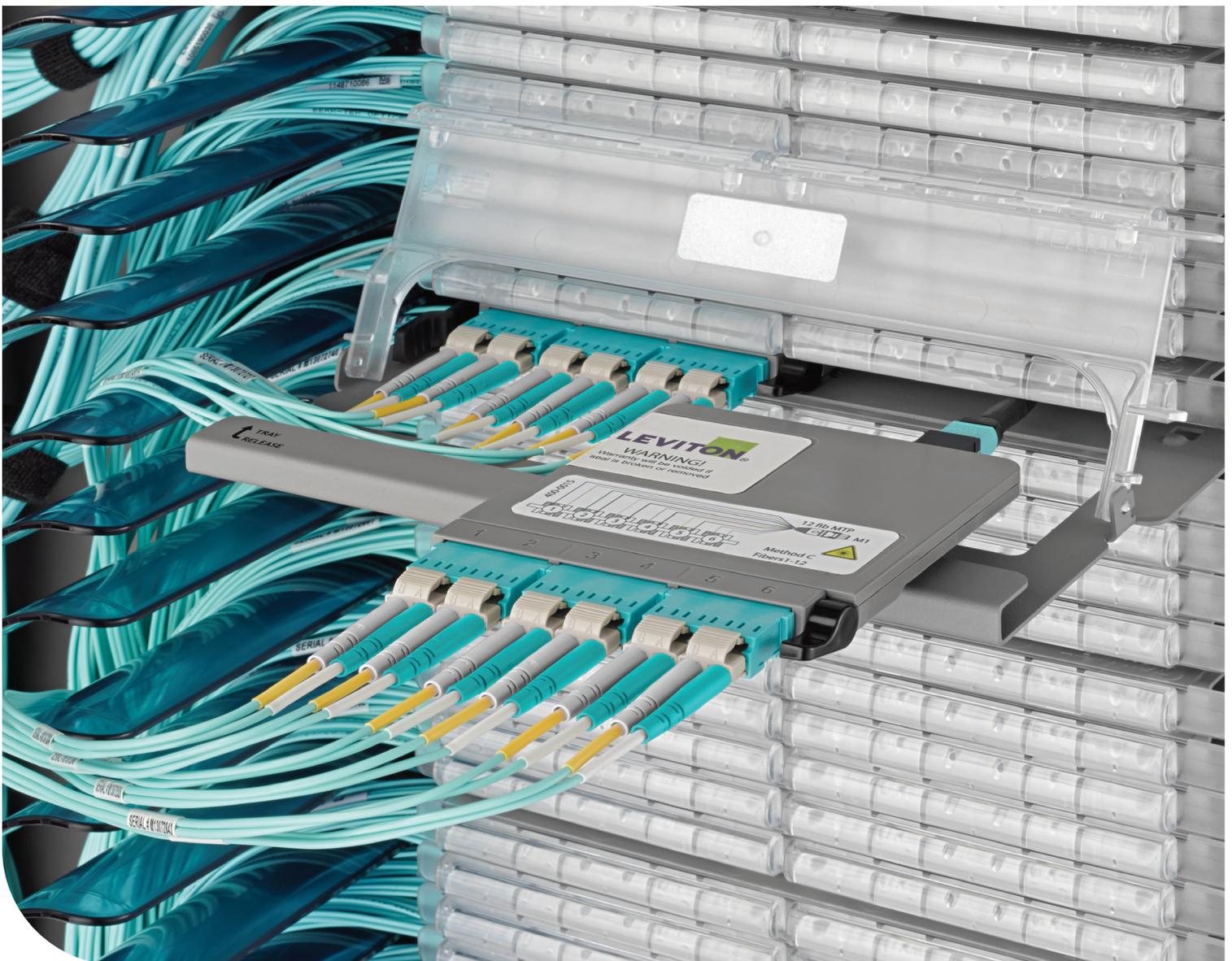
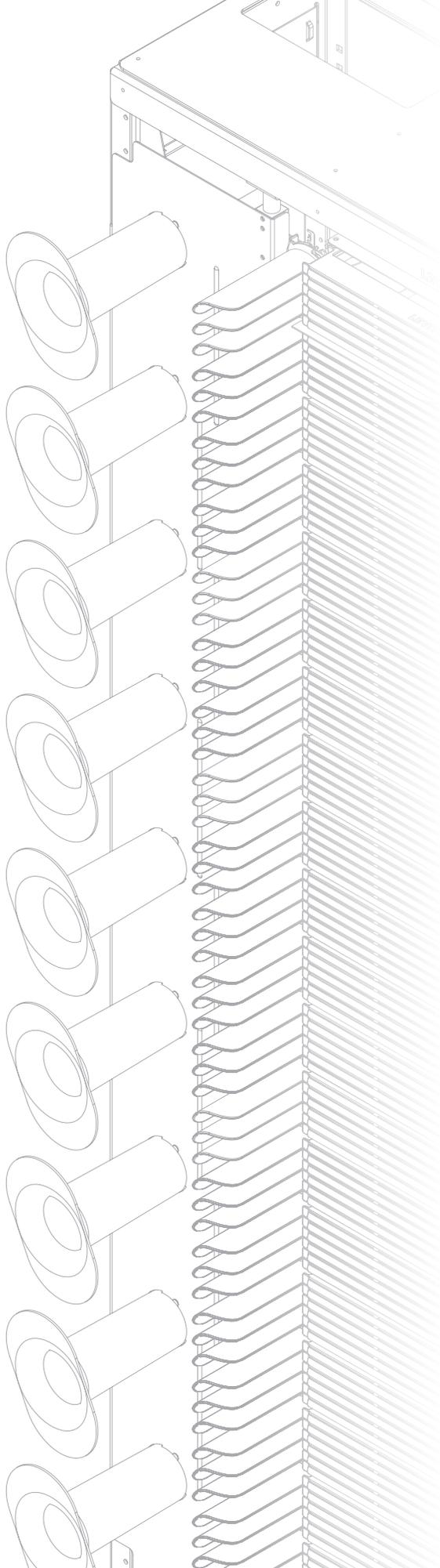


# Opt-X<sup>®</sup> HDX Fiber Distribution Frame

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





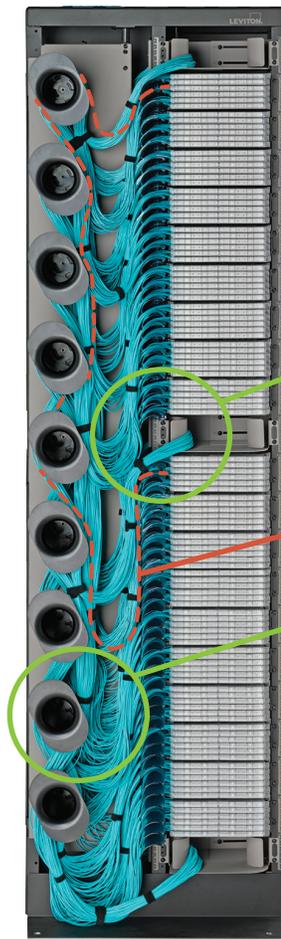
# HDX

## FIBER DISTRIBUTION FRAME

The Leviton high-density HDX Fiber Distribution Frame is a main cross-connect or inter-connect frame that can handle up to 3,168 fibers, using LC connectors, in just one tile of floor space. Ideal for service providers, central office facilities, large enterprise, and cloud data centers, the HDX Fiber Distribution Frame will reduce your patching footprint, free up valuable space, and save you money. Separated trunk cable and patch cord management improves accessibility and enables easy moves, adds, and changes. In addition, the system is fully scalable and modular, supporting consolidation and growth.

## INDUSTRY-LEADING DENSITY

The HDX frame accomplishes such high density through its unique patch deck design. One frame holds up to 22 decks, each configured with your choice of HDX cassettes, HDX adapter plates, or injection-molded splice trays.



Maintains proper bend radius



Provides additional slack storage

Only one length of patch cord (3m) necessary for in-frame patching

## BUILT-IN CABLE MANAGEMENT & ROUTING

The frame keeps pathways clean and organized, using integrated cable management for minimum bend radius, better slack storage, and protection within the frame. Patch decks contain patch cord and MTP® trunk routing for individual trays. And enhanced labeling improves deck and fiber identification to simplify moves, adds, or changes.

## SUPERIOR SCALABILITY

HDX frames can be ganged together easily to handle future growth with pass-through cross-frame routing kits. And with 24-fiber MTP connectivity, they are ideal for migration from 10G to 40G to 100G and beyond.

## ADDITIONAL SECURITY

The HDX frame includes locking rear doors to protect and conceal trunk cabling. Locking front doors (sold separately) are transparent to allow visibility.

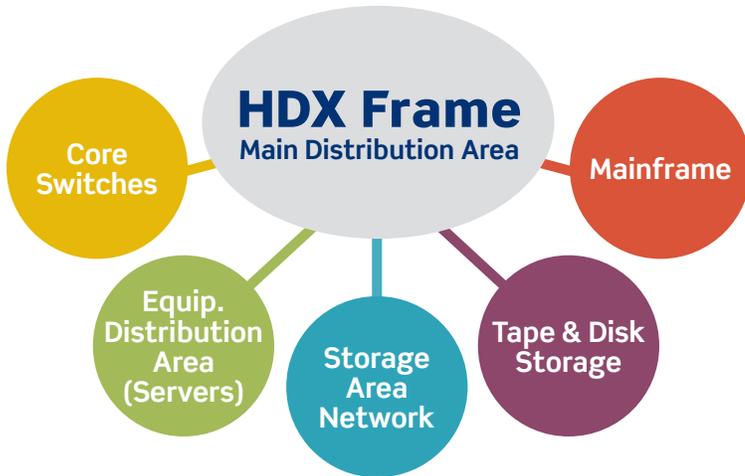
## EASY ACCESSIBILITY

The frame's open design greatly reduces time and labor for maintenance, as it allows unobstructed access to patch cord connections on the cassettes and adapter plates. And the one-tile footprint makes it easier to access the space beneath a raised floor.



## HDX FIBER DISTRIBUTION FRAME | Space Savings

Data center infrastructure standards like TIA-942 recommend driving all network cabling back to patching in the main distribution area, or MDA. Following these standards, the HDX frame is designed to be installed in the MDA, serving as the **main cross-connect patching location** for all fiber channels in the data center. It can support cabling from network servers, core switches, the SAN, mainframe, and disk or tape storage.



| HDX FRAME CAPACITY CHART (Based on use of 48-fiber trunks) |                    |
|--|--------------------|
| CONNECTIVITY   | MAX. FIBER STRANDS |
| LC   | 3,168              |
| 12-Fiber MTP®  | 7,776              |
| 24-Fiber MTP®  | 15,552             |

The **HDX Frame** consolidates patching for all fiber channels in the data center into an incredibly small footprint. Since it doesn't require the use of standard 19-inch cabinets, which often require additional width and depth, it uses less space for patching.

By reducing overall floor-space requirements, the HDX frame creates significant yearly cost savings.



2' x 2' Footprint

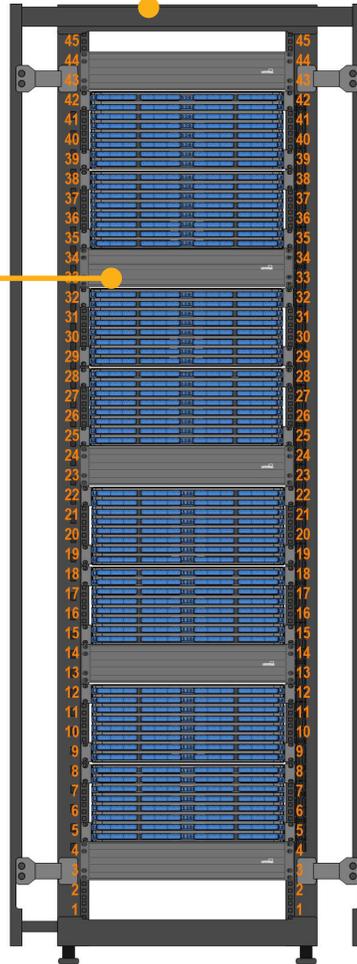
# Traditional Cabinet vs. HDX Frame Space Savings

84" High Cabinet  
42 Rack Units  
3,456 Total LC Fibers

4RU Enclosure:  
384 LC Fiber Strands

Cabinet  
32" W x 48" D

Raised Access  
Floor Tile  
24" x 24"

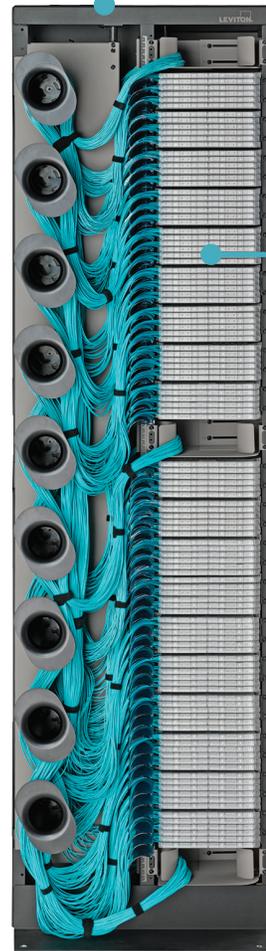


84" High Cabinet  
22 Rack Units  
3,168 Total LC Fibers

2RU Patch Deck:  
144 LC Fiber Strands

HDX Frame  
24" W x 24" D

Raised Access  
Floor Tile  
24" x 24"



Top View 32" W x 48" D  
**10.7 Square Feet Used**

Top View 24" W x 24" D  
**4 Square Feet Used**



## FIBER DISTRIBUTION FRAME

- Integrated cable management and routing solutions for minimum bend radius, better slack storage, and protection
- Holds up to 22 decks; each can be configured with cassettes, adapter plates, or splice trays
- Lockable rear doors included to protect and conceal trunk cabling
- Optional front doors (sold separately) are transparent on one side and lockable for additional security
- Occupies only one 2-foot square tile
- Seismic certified to GR-63-CORE, Zone 4, and cULus 2416 Listed

## PATCH DECK

- Modular 3.5-inch deck accepts up to 144 fibers (using LC) capacity
- Holds 6 independent sliding and removable trays and accepts up to 12 MTP® cassettes or adapter plates
- Magnifying port identification label holders for better visibility
- Integrated minimum bend radius protection

## SPLICE DECK

- Modular 3.5-inch-high deck accepts up to three independent splice trays
- Sliding trays are removable for ease of splicing
- Heat-shrink fusion splicing of individual 250  $\mu\text{m}$  or 900  $\mu\text{m}$  tight-buffer fibers for up to 144 fibers per deck
- Mass ribbon fusion splicing available as custom order

### OPT-X® HDX FIBER OPTIC DISTRIBUTION FRAME

| DESCRIPTION   | PART NO.  |
|---|-----------|
| <b>[A]</b> Fiber Distribution Frame, 7' H x 2' W x 2' D                                       | F3168-22F |
| <b>[B]</b> Patch Deck, 2RU, empty (includes horizontal cable management and cable clamp kit)  | F3168-DCK |
| <b>[C]</b> Splice Deck, 2RU, empty (includes horizontal cable management and cable clamp kit) | F3168-SPD |
| <b>[D]</b> Cross-Frame Routing Kit  | F3168-CFR |
| <b>[E]</b> Front Doors Kit  | F3168-FDR |
| Cable Clamp Kit (for additional fiber trunks)   | F3168-CCK |
| Seismic Zone 4 Kit  | F3168-EQK |
| 2RU Blank Panel (for frame)   | F3168-BLK |
| 24-fiber Heat Shrink Style Molded Splice Tray (includes 60 mm splice sleeves)                 | T5PLS-24F |

# HDX FIBER DISTRIBUTION FRAME Cassettes, Adapter Plates & Splice Modules



1x12 MTP® Fiber to 12-Fiber LC Cassette



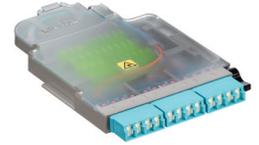
2x24 MTP Fiber to 6x8 MTP Fiber Cassette



F



G



H

## HDX MTP CASSETTES

- 12- or 24-fiber MTP configurations
- Select from LC shuttered or MTP connectors
- Configure up to 48 fibers for 24 channels (10G) and 6 channels (40G)
- Easy migration to 40, 100, 200, and 400 Gb/s when used with Opt-X® Unity trunks, harnesses, or patch cords
- Pre-terminated fiber eliminates the need for complicated field terminations and splices



## HDX LC & MTP SPLICE MODULES

- Modules integrate fiber adapter bulkhead (12 or 36 fibers) and splice holders, eliminating need for splice trays
- Innovative 12-fiber color-coded pigtail offers fusion splicing to either single fiber or ribbon fiber constructions
- LC internal shutters minimize dust and provide eye protection
- Splice Sleeves included in accessory kit
- MTP Splice Module offers field termination option to migrate from 10 to 40, 100, 200 or 400 Gb/s

## HDX ADAPTER PLATES

- Connect to field-terminated backbone cabling or pre-terminated trunks
- LC shuttered, and MTP styles in 12, or up to 72/144-fiber configurations are available

### HDX ADAPTER PLATES

|            |  |           |
|------------|--|-----------|
| <b>[F]</b> | Adapter Plate, OM3 & OM4, Quad LC shuttered (Aqua), 12 fibers, zirconia ceramic sleeve | 5FUHD-SQL |
|            | Adapter Plate, OS2, Quad LC shuttered (Blue), 12 fibers, zirconia ceramic sleeve       | 5FUHD-SLL |
|            | Adapter Plate, 3 Duplex MTP Adapters (Black), key up/key up                            | 5FUHD-6MB |
| <b>[G]</b> | Adapter Plate, 3 Duplex MTP Adapters (Black), key up/key down                          | 5FUHD-6MP |
|            | Adapter Plate, blank (Black)   | 5FUHD-BLK |

### HDX FIBER SPLICE MODULES\*

|            |  |            |
|------------|--|------------|
| <b>[H]</b> | 12-fiber HDX Splice Module, OM4 LC (aqua)      | SPLCH-12AQ |
|            | 12-fiber HDX Splice Module, OS2 LC (blue)      | SPLCH-12BL |
|            | 12-fiber HDX Splice Module, OS2 LC/APC (green) | SPLCH-12GN |
|            | 36-fiber HDX Splice Module, OM4 MTP (male)     | SPMPH-MMPN |
|            | 36-fiber HDX Splice Module, OS2 MTP (male)     | SPMPH-SMPN |
|            | 36-fiber HDX Splice Module, OM4 MTP (female)   | SPMPH-MMUP |
|            | 36-fiber HDX Splice Module, OS2 MTP (female)   | SPMPH-SMUP |

\* = Make to Order, lead times may apply.

### Make-to-order! HDX/HDX2 CASSETTE OPTIONS

| FIBER TYPE | FIBER COUNT | CONNECTOR TYPE (FRONT) | MTP TYPE (REAR)               | POLARITY         |              |
|------------|-------------|------------------------|-------------------------------|------------------|--------------|
| • OM3      | • 8         | • LC Shuttered         | • 8-Fiber MTP (Male) Base 8   | • Method A       | • Method C   |
| • OM4      | • 12        | • LC Non-Shuttered     | • 12-Fiber MTP (Male) Base 12 | • Method B, Core | • Conversion |
| • OS2      | • 24        | • 8-Fiber MTP (Female) | • 24-Fiber MTP (Male) Base 24 | • Method B, Edge | • Universal  |
| • OS2      | • 48        | • 8-Fiber MTP (Male)   |                               |                  |              |

For Method B polarity, you must order one each of the Core and Edge cassettes.

For assistance customizing your cassettes, please visit [leviton.com/configurator](http://leviton.com/configurator) or call Tech Support at 800.824.3005.

Today's networks must be fast and reliable, with the flexibility to handle ever-increasing data demands. Leviton can help expand your network possibilities and prepare you for the future. Our end-to-end cabling systems feature robust construction that reduces downtime, and performance that exceeds standards. We offer quick-ship make-to-order solutions from our US and UK factories. We even invent new products for customers when the product they need is not available. All of this adds up to the **highest return on infrastructure investment.**



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## YOU MIGHT ALSO BE INTERESTED IN...



### Opt-X® HDX Enclosure System

The HDX System features compact cassettes and adapter plates that fit into high-density enclosures, creating a scalable platform for enterprise and data center applications.



### Opt-X HDX Splice Module

Splice modules are available with either LC shuttered or MTP connectors to eliminate the need for individual splice trays within a fiber enclosure and provide optimal organization and slack management of fibers.



### Premium Patch Cords & Pigtailed

Premium Series Patch Cords and Pigtailed feature advanced polishing and assembly techniques, easy polarity changes, and insertion loss and return loss tested to industry-leading standards.



### Pre-terminated Trunk Cables

Leviton Opt-X SJX pre-terminated trunks provide the highest density backbone connectivity available.