FIBER SYSTEMS
Enclosure and Panel Selection Guide
FIBER SYSTEMS

Whether your installation is small or large, simple or complex, you can rely on Leviton for a network patching platform that meets your requirements. From cloud data center to remote telecom room, from service provider to enterprise office building, Leviton solutions are versatile enough to meet specific customer demands, ensuring migration options for future bandwidth growth and strong return on infrastructure investment.

<table>
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<td>Cassettes with adjustable rear MTPs for improved bend radius</td>
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### Versatile solutions in multiple sizes and styles for small data centers and enterprise applications.

- **Opt-X® SDX**
- **e2XHD**
- **Opt-X HDX**

- Enterprise
- Mission Critical
- Mission Critical

### System Features:

- Ultra high density (144F per RU)
- High density (96F per RU)
- Standard density (72F per RU)
- Angled panel eliminates need for patch cord cable manager
- Individual sliding trays minimize impact on surrounding fibers
- TAP Cassette option to monitor networks for performance and security
- One-handed, single-click cassette installation for easy deployment
- 10/40/100G Unity migration to simplify tech upgrades
- OM4+ fiber type for extended-reach fiber networks
- OM1 / OM2 / OM3 / OM4 / OS2 fiber types for backward compatibility
- Precision-molded adapter plates for durable network connections
- Allows mix of copper and fiber for network flexibility
- Cassettes with adjustable rear MTPs for improved bend radius
- Field splicing capability

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The HDX Frame is a main cross-connect or interconnect patching frame for all fiber channels in the data center. One frame consolidates patching into an incredibly small footprint, with capacity for up to 3,168 LC fibers, or 7,776 fibers using 12-fiber MTP connections.

The HDX Frame accomplishes such high density through its unique patch deck design. One frame holds 22 decks, each configured with HDX fiber cassettes and adapter plates, or splice trays. And since it occupies only one data center floor tile, it’s easier than ever to access space beneath a raised floor.

For more information, please visit Leviton.com/HDXFrame.
HDX Adapter Plates & Cassettes

HDX Adapter Plates and Cassettes work with UHDX Enclosures and Panels, and the HDX Fiber Distribution Frame. They are ideal for data centers or telecommunication rooms with space limitations and growth needs, and can speed deployment and MACs through easy one-hand installation and removal. The HDX platform is recommended for 10 Gb/s or higher applications.

**HDX Adapter Plates**
- Connect to field-terminated backbone cabling or pre-terminated trunks
- Easy, one-hand installation and removal
- LC, SC, and MTP® styles in 6, 12, or up to 72/144 fiber configurations
- Visible sequential numbering to identify ports (for Tx and Rx)

**HDX & HDX2 MTP Cassettes**
- 12- or 24-fiber MTP configurations
- Select from LC or MTP connectors for 10, 40, or 100 Gb/s applications
- Configure up to 24 fibers for 3 channels (40 Gb/s) per cassette
- Easy to migrate from 10 to 40/100 Gb/s when used with Opt-X Unity trunks, harnesses, or patch cords
- A variety of fiber types are available including single-mode, multimode, and laser-optimized multimode
- Easy, one-hand installation and removal
- Options for TAP Cassette to monitor network performance

**HDX & HDX2 Conversion Cassettes**
- Manage polarity to maintain, transmit, and receive connections between parallel optics and SFP connectivity
- Connect to electronics with LC-style ports and aggregates SFP ports to a QSFP+ (40 Gb/s) or CXP (120 Gb/s) port
- Fit in UHDX enclosures and panel
- Snap in and out of enclosure/panel for rapid installation, adds, and changes
The e2XHD Fiber and Copper Patching System is an easy-to-connect, high-density solution for applications where fast deployment and simple maintenance are critical. The system includes 1RU panels, copper and fiber snap-in cassettes, and accessories for additional cable protection and management.

**Panels**
- Flat and angled panels allow for fiber and copper cabling in the same panel
- 1RU panels hold up to 96 fibers using LC (8 cassettes) or 48 copper ports (8 cassettes)
- Alignment tabs on panels ensure upright insertions of cassettes

**e2XHD Copper Cassettes**
e2XHD Copper Cassettes accept six QuickPort® connectors. The connectors easily snap into the cassette after termination, and can be removed using a QuickPort Connector Removal Tool. An AXT barrier on the cassette reduces alien crosstalk between ports.
e2XHD Cassettes

e2XHD fiber and copper cassettes are used exclusively with e2XHD Panels. They quickly snap in and pull out of the panels, making moves, adds, and changes easier than ever.

Fiber Cassettes
- Allow for a simple migration path to 40 and 100 Gb/s networks with MTP® cassettes
- MTP adapter swivel allows for easy cable routing and proper bend radius
- 12-fiber MTP and LC adapter cassettes use QuickPort® modular fiber adapters which can be removed with a QuickPort removal tool
- 100 to 10 Gb/s and 40 to 10 Gb/s conversion cassettes available

e2XHD Fiber Cassettes feature an MTP adapter that swivels to three positions for easier cable routing. Used in conjunction with a rear cable manager and cable management rings, the adapter delivers an ideal solution for eliminating cable tension and ensuring proper bend radius.
Opt-X® 2000i SDX Enclosures
Designed for enterprise and data center applications, the Opt-X 2000i SDX Enclosure combines all our most popular features into one eye-catching platform.

- Up to 72 LC fibers in a 1RU enclosure, 144 LC fibers in a 2RU enclosure, and 288 LC fibers in a 4RU enclosure using SDX adapter plates
- Removable sliding tray releases from front or rear of enclosure to facilitate field terminations and splicing
- 17-inch depth for high-density fiber termination and/or splicing
- Removable, transparent hinged doors and slide-away covers allow easy access and visibility
- Accepts injection-molded splice trays and 4” x 7” metal splice trays

Opt-X 1000i SDX Enclosures
These durable enclosures allow for easy field termination of connectors, splicing, or patching pre-terminated plug-n-play solutions.

- Up to 72 LC fibers in a 1RU enclosure, 144 LC fibers in a 2RU enclosure, 288 LC fibers in a 3RU enclosure, and 360 LC fibers in a 4RU enclosure using SDX adapter plates
- 15-inch depth for high-density fiber termination and/or splicing
- Removable front and rear covers for better access to interior of enclosure
- Accepts injection-molded splice trays and 4” x 7” metal splice trays

Opt-X 500i SDX Enclosures
Ideal for small enterprise applications, the economical 500i Rack-Mount Enclosure features a one-piece removable cover for complete accessibility to the back of the enclosure.

- Flush-mount adapter bulkhead for ease of moves, adds, and changes
- Accepts injection-molded splice trays and 4” x 7” metal splice trays
- Flush-mount panels available in 1RU, 2RU, and 3RU sizes
- Optional patch cord management tray installs directly to front of enclosure

Opt-X 500i SDX Panels
Designed to use minimum rack space in a frame or cabinet, the 500i Panel supports easy field termination and is ideal for small-enterprise applications.

- Flush-mount adapter bulkhead makes moves, adds, and changes easy
- Stackable fiber rings simplify cable routing and organization
- Available in 1RU and 3RU sizes
**Opt-X® SDX Wall-Mount Enclosures**

Leviton Opt-X SDX Wall-Mount enclosures are a smart choice to deploy in entrance facilities, telecommunications rooms, and remote network hubs that require patching, cross-connect or splicing while using a minimum of space.

- Four sizes available: versatile patching solution accommodates 24 LC to 288 LC fibers
- Network security: Includes locking doors and dual-door access to separate user and service sides
- Cable and patch cord protection: Easy to dress-out and protect cables and jackets from damage and pinching
- Space savings: Compact zero-RU, wall-mount, and DIN-rail mounting options
- Network consistency: Enclosures accommodate both Leviton SDX and HDX patching platforms
- Field splicing: Includes both splice trays and self-contained splice modules
- Mounting options: Wall-mount, DIN rail, zero-RU, or cubicle wall installations
- Accepts injection-molded splice trays and 4” x 7” metal splice trays

**SDX Adapter Plates & Cassettes**

SDX cassettes and adapter plates recommended for 1 Gb/s applications or higher and are ideal for infrastructure that requires easier cable management.

**SDX Adapter Plates**

- Unique precision-molded design is eight times stronger than metal adapter plates
- Captive push/pull fasteners for tool-free installation and removal
- Available in 6- to 24-fiber plates for LC, SC, and ST and 72- to 192-fiber plates for MTP®

**SDX MTP Cassettes**

- Plug-n-play cassette eliminates the need for field termination or splices
- Each cassette supports up to 48 fibers using MTP-MTP, or 24 fibers using MTP-LC
- All cassettes use either 24-fiber or 12-fiber low-loss MTP connectors
- 100% factory tested with test results included with each cassette
- Violet color option available for OM4+
- Allows easy migration from 10 to 40 or 100 Gb/s

**Retrofit Trays**

Retrofit Trays are available to upgrade your current 1RU or 2RU Opt-X 2000i SDX or 1000i SDX enclosure to accept high-density HDX cassettes and adapter plates. HDX-to-SDX Adapter Brackets are available to accommodate deployment of HDX cassettes within an 2000i SDX or 1000i SDX platform.
LightSpace® Enclosures

LightSpace Rack-Mount Enclosures are specifically designed to meet the requirements of service providers that follow the legacy Lightguide Cross-Connect (LGX®) fiber distribution frame system guideline. Ideal for central office applications, DP and DPS Enclosures are available in 3RU, 4RU, and 6RU sizes. DPC Series Fiber Termination and Splice Enclosures are “combo” units that feature all the benefits of the DP and DPS Series Enclosures, and are available in 6RU, 7RU, and 8RU.

- Large cable management rings for enhanced jumper routing
- Stackable for customized sizing
- Front cable management saddles
- Side entry for backbone cable
- Mounts on standard 19-inch and 23-inch racks and cabinets

Series: DP | DPS | DPC

Adapter Plates
Equipment-Specific Solutions
Leviton works closely with the biggest names in active network equipment to create scalable, high-density data center networks. When combined with the latest data center switches from Arista, Brocade, Cisco, and Extreme Networks, Leviton connectivity provides design flexibility for your equipment architecture. These solutions include vertical patching brackets, blade replicators, and replicator enclosures.

Flush-Mount Enclosures & Panels
Leviton high-density Flush-Mount Enclosures and Panels are ideal for data center server, zone, or MDA cabinet applications where space is crucial. These enclosures utilize MTP® connections on the back with choice of fiber connectors on the front, or can be pre-assembled with harnesses. Panels can accommodate up to 576 multimode or single-mode fibers, depending on connector style, and mount on standard 19-inch racks and cabinets.

Sizes: 1RU | 4RU | 6RU | 8RU
## Select your Rack-Mount Enclosures & Panels

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mission Critical</th>
<th>Enterprise / DC Service Provider</th>
</tr>
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<table>
<thead>
<tr>
<th>Maximum Capacity</th>
<th>Fibers using LC</th>
<th>Adapter Plates pass-through</th>
<th>Splice Trays*</th>
<th>Cassettes</th>
<th>Part No.</th>
<th>Mission Critical</th>
<th>Enterprise / DC Service Provider</th>
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<td>SWMED-04C*</td>
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<td>SWLAR-12C*</td>
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</table>

* = Max splice tray capacity is dependent on height of splice tray. See page 15.
^ = Contact Inside Sales for white colored option. Minimum order quantities and lead time may apply.
Select Enclosure Accessories

**Fan-Out Kit**
- 24" Fiber Optic Fan-out Kit, 6-fiber
- 24" Fiber Optic Fan-out Kit, 12-fiber
- 36" Fiber Optic Fan-out Kit, 6-fiber
- 36" Fiber Optic Fan-out Kit, 12-fiber

**Fiber Rings**
- Fiber Cable Management ¼ Ring Kit

**Cable Clamp Kit**
- Enclosure-mount Universal Clamp Kit (single cable grommet)
- Enclosure-mount Universal Clamp Kit (multiple cable grommet)
- Rack-mount Universal Clamp Kit (single and multiple cable grommet)
- DP/DPS/DPC Series Cable Clamp Kit (.25" - 1.25" Ø cable)

**Grounding Kit**
- Universal Grounding Kit

**Locks & Keys**
- DP/DPS/DPC Series Lock and Key
- SDX Series Lock and Key

**Mounting Options**
- HDX-to-SDX Adapter Bracket
- DIN Rail Bracket Kit (for mini enclosure only)
- 0RU Mounting Bracket, bag of 2 (for mini enclosure only)
- e2XHD Rear Cable Manager for Angled Panel, with cable management rings
- e2XHD Rear Cable Manager for Flat Panel, with cable management rings
- 0RU Flush-Mount Enclosure Panel Patch Cord Managers, bag of 2
- 1RU Enclosure and Panel Patch Cord Management Tray
- 2RU Enclosure and Panel Patch Cord Management Tray

**Patch Cord Cable Managers**
- 12-fiber, OM1 & OM2, quad LC (beige), phosphor bronze sleeve
- 12-fiber, OM3 & OM4, quad LC (aqua), zirconia ceramic sleeve
- 12-fiber, OM4+, quad LC (violet), zirconia ceramic sleeve
- 12-fiber, OS2, quad LC (blue), zirconia ceramic sleeve
- 12-fiber, OS2, quad LC/APC (green), zirconia ceramic sleeve
- 12-fiber, OM1, duplex LC, 62.5 µm (beige), zirconia ceramic sleeve
- 12-fiber, OM2, duplex LC, 50 µm (black), zirconia ceramic sleeve
- 12-fiber, OM3 & OM4, duplex LC, 50 µm (aqua), zirconia ceramic sleeve
- 12-fiber, OM4+, duplex LC, 50 µm (violet), zirconia ceramic sleeve
- 12-fiber, OS2, duplex LC (blue), zirconia ceramic sleeve
- 12-fiber, OS2, duplex LC/APC (green), zirconia ceramic sleeve
- 24-fiber, OM1, quad LC, 62.5 µm (beige), zirconia ceramic sleeve
- 24-fiber, OM2, quad LC, 50 µm (black), zirconia ceramic sleeve
- 24-fiber, OM3 & OM4, quad LC, 50 µm (aqua), zirconia ceramic sleeve
- 24-fiber, OM4+, duplex LC, 50 µm (violet), zirconia ceramic sleeve
- 24-fiber, OS2, quad LC (blue), zirconia ceramic sleeve
- 24-fiber, OM1 & OM2, quad LC (beige), phosphor bronze sleeve
- 24-fiber, OM1 & OM2, duplex LC (aqua), zirconia ceramic sleeve
- 24-fiber, OS2, duplex LC (blue), zirconia ceramic sleeve

Additional configurations available. Contact inside sales at 800.722.2082.

* = Use with flat panel
<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OM1 &amp; OM2</td>
<td>SC, 6-position MTP, key up/key up</td>
<td>32MM1-xxN</td>
</tr>
<tr>
<td>OM3 &amp; OM4</td>
<td>SC, 6-position MTP, key up/key down</td>
<td>32MM2-xxN</td>
</tr>
<tr>
<td>OS2, OM1 &amp; OM2</td>
<td>ST, 6-position MTP, key up/key down</td>
<td>31LM1-xxN</td>
</tr>
<tr>
<td>OM3 &amp; OM4</td>
<td>ST, 6-position MTP, key up/key up</td>
<td>32MM1-xxN</td>
</tr>
<tr>
<td>OS2</td>
<td>SC/APC, 6-position MTP, key up/key down</td>
<td>34MM1-xxN</td>
</tr>
<tr>
<td>OS2</td>
<td>OM1, OM2, ST, 6-position MTP, key up/key up</td>
<td>32MM2-xxN</td>
</tr>
<tr>
<td>OS2</td>
<td>OM1, OM2, OM3, OM4, OM4+</td>
<td>32MM1-xxN</td>
</tr>
<tr>
<td>OS2</td>
<td>OM1, OM2, OM3, OM4+</td>
<td>32MM2-xxN</td>
</tr>
<tr>
<td>OS2</td>
<td>OM1, OM2, OM3, OM4+</td>
<td>34MM2-xxN</td>
</tr>
</tbody>
</table>

**Additional configurations available. Contact inside sales at 800.722.2082.**

* = HDX fits all Opt-X UHDX / HDX enclosures and panels and HDX Frame patch decks
** = LightSpace (LGX Footprint) fits all LightSpace enclosures.
### 4 Select Splice Trays / Modules

<table>
<thead>
<tr>
<th>Metal Splice Tray, Heat Shrink (plastic)</th>
<th>2000i SDX</th>
<th>1000i SDX</th>
<th>5001i SDX</th>
<th>SDX Wall Mount</th>
<th>LightSpace DPS</th>
<th>LightSpace DPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-Fiber Mini, 4&quot; x 7&quot; x 0.35&quot;</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>12-Fiber Mini, with standoff, 4&quot; x 7&quot; x 0.57&quot;</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>24-Fiber High-Density, 4&quot; x 11.75&quot; x 0.35&quot;</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>24-Fiber High-Density, 5&quot; x 11.75&quot; x 0.35&quot;</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Precision-Molded Splice Trays, Heat Shrink (plastic)</th>
<th>2000i SDX</th>
<th>1000i SDX</th>
<th>5001i SDX</th>
<th>SDX Wall Mount</th>
<th>LightSpace DPS</th>
<th>LightSpace DPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-Fiber Mini, 3.74&quot; x 5.59&quot; x 0.56&quot; (14 Heat shrink splice sleeves included)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>24-Fiber High-Density, 4.5&quot; x 7.63&quot; x 0.50&quot; (26 Heat shrink splice sleeves included)</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Ribbon Style Splice Tray, Heat Shrink (plastic)</th>
<th>2000i SDX</th>
<th>1000i SDX</th>
<th>5001i SDX</th>
<th>SDX Wall Mount</th>
<th>LightSpace DPS</th>
<th>LightSpace DPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>72-Fiber Ribbon Style, quartz, 6&quot; x 10&quot; x 0.35&quot;</td>
<td>X</td>
<td>X</td>
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</table>

<table>
<thead>
<tr>
<th>SDX 12- &amp; 24-Fiber Splice Modules</th>
<th>2000i SDX</th>
<th>1000i SDX</th>
<th>5001i SDX</th>
<th>SDX Wall Mount</th>
<th>LightSpace DPS</th>
<th>LightSpace DPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDX 12-Fiber LC Splice Module</td>
<td>X</td>
<td>X</td>
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<tr>
<td>SDX 24-Fiber LC Splice Module</td>
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<td>X</td>
<td>X</td>
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<tr>
<td>SDX 12-Fiber SC Splice Module</td>
<td>X</td>
<td>X</td>
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</tbody>
</table>

x = OM3 (A), OM4 (4), OS2 (L), APC OS2 (V)

### 5 Select Connectors

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Fast-Cure® Anaerobic Adhesive</td>
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</tr>
<tr>
<td>LC (with 2 - 3 mm boot)</td>
<td>49990-ML2</td>
<td>49990-ML2</td>
<td>49990-LL2</td>
<td>49990-SL2</td>
</tr>
<tr>
<td>LC (with 0.9 mm boot)</td>
<td>49990-MDL</td>
<td>49990-MDL</td>
<td>49990-LDL</td>
<td>49990-SDL</td>
</tr>
<tr>
<td>SC</td>
<td>49990-MSC</td>
<td>49990-MSC</td>
<td>49990-LSC</td>
<td>49990-SSC</td>
</tr>
<tr>
<td>ST</td>
<td>49990-MST</td>
<td>49990-MST</td>
<td></td>
<td>49990-SST</td>
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</table>

<table>
<thead>
<tr>
<th>FastCAM® Pre-Polished</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>LC*</td>
<td>49991-MLC</td>
<td>49991-MLC</td>
<td>49991-LLC</td>
<td>49991-SLC</td>
</tr>
<tr>
<td>SC*</td>
<td>49991-MSC</td>
<td>49991-MLC</td>
<td>49991-LSC</td>
<td>49991-SSC</td>
</tr>
<tr>
<td>ST*</td>
<td>49991-MST</td>
<td>49991-MLC</td>
<td>49991-SST</td>
<td>49991-SSC</td>
</tr>
</tbody>
</table>

** = Termination of angled pre-polished connectors requires a precision angled cleaver
* = Termination of pre-polished connectors requires a precision cleaver
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