

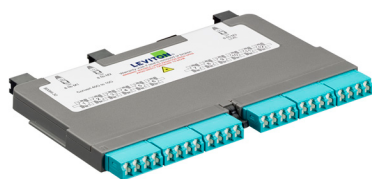
## PRODUCT SPECIFICATIONS

### OPT-X HDX Unity Base8/24 Breakout MTP Cassettes

## OPT-X™ HDX Unity Ultra Low Loss Base8/24 Breakout MTP® Cassettes

### APPLICATION

HDX Unity Base8/24 Breakout Cassettes are designed for connection to electronics with LC-style ports and aggregating SFP ports to QSFP, QSFP28, QSFP-DD, and OSFP 28 ports. The cassettes manage polarity to maintain, transmit, and receive connections between parallel optics and SFP connectivity. The cassette easily snaps in and out of rack-mount panels, facilitating rapid installation, adds, and changes in the network. Breakout cassettes are ideal for applications including 40G to 10G, 120G to 10G, 120G to 40G, and can support data rates beyond 100G.



24F, 4:1 8F MTP to LC



24F, 3:1 MTP to MTP

### SPECIFICATION

All pre-terminated components, including trunks, cassettes, harnesses, brackets, patch panels, and enclosures, shall be provided and warranted by a single manufacturer. Multimode cassettes shall meet an optical insertion loss not to exceed 0.35 dB for Base8 MTP-to-LC cassettes, 0.50 dB for Base24 MTP-to-LC cassettes, or 0.75 for Base24 MTP-to-MTP cassettes. Single-mode cassettes shall meet an optical insertion loss not to exceed 0.50 dB for Base8 and Base24 MTP-to-LC cassettes, or 0.75 dB for Base24 MTP-to-MTP cassette. LC adapters shall use ceramic ferrules and shall provide an option for IP5x-rated internal shutters, compliant with IEC 60529, that open and close automatically with the insertion and removal of an LC connector. MTP connectors shall mate to key up/key down adapter on rear of cassette. Cassettes shall be pre-terminated and pre-tested with test documentation provided upon request. Cassettes available in breakout polarities for use with Method B Trunk or array cords and shall allow for multiple cassettes to be connected in a channel.

### STANDARDS & REGULATIONS

- Supports data rates identified in multiple IEEE 802.3xx standards as applicable by connector type and cable grade
- ANSI/TIA-942 data center design guidelines
- ANSI/TIA-568.3-D for performance requirements
- ANSI/TIA-604-5 (MTP), -10B (LC) for connector intermateability
- IEC 60529 IP5x dust protection (LC)

### FEATURES

- Ultra Low-Loss Base8 and Base24 MTP Connectors for maximum network design flexibility
- Select from a variety of fiber types including single-mode (OS2), laser-optimized multimode (OM3 and OM4), SWDM multimode (OM5)
- Cassettes use bend-insensitive fiber
- Patented internal shutters on LC adapters eliminate the need for dust plugs to reduce waste, accelerate deployment, and ensure safer installation.
- Compatible with reverse polarity LC Uniboot patch cords
- HDX cassettes fit in all UHDX and HDX enclosure or panel configurations
- Same cassette used on each end of fiber channel

### DESIGN CONSIDERATIONS

- Network design flexibility between Core, Aggregation, and Network switches
- To port replicate or breakout switch ports such as:
  - Arista 7500 Series switches
  - Brocade VDX switches
  - Extreme Networks Black Diamond Series switches
  - Cisco Nexus 7000 Series switches
- 4:1 breakout cassette uses Base8 MTP connectors (male)
- 3:1 or 12:1 breakout cassettes uses Base24 MTP connectors (male)
- Cassettes to be used with Method B trunks

### MECHANICAL SPECIFICATIONS

Dimensions: See page two  
Materials: Gray polycarbonate  
Temperature (Installation): -10 °C to +60 °C  
Temperature (Operating): -10 °C to +60 °C

### WARRANTY INFORMATION

For Leviton product warranties, go to [leviton.com/ns/warranty](http://leviton.com/ns/warranty)

### PERFORMANCE SPECIFICATION

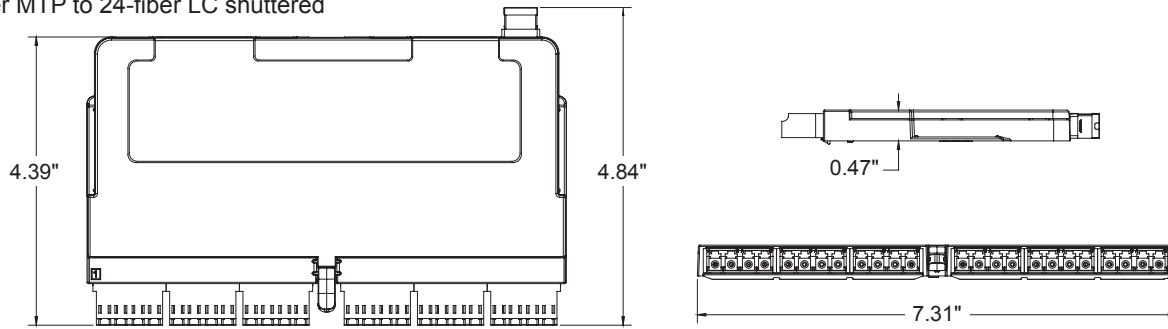
	Multimode		Single-mode	
	Base8 Max IL	Base24 Max IL	Base8 Max IL	Base24 Max IL
MTP-LC	0.35	0.50	0.50	0.50
MTP-MTP	—	0.75	—	0.75

### COUNTRY OF ORIGIN

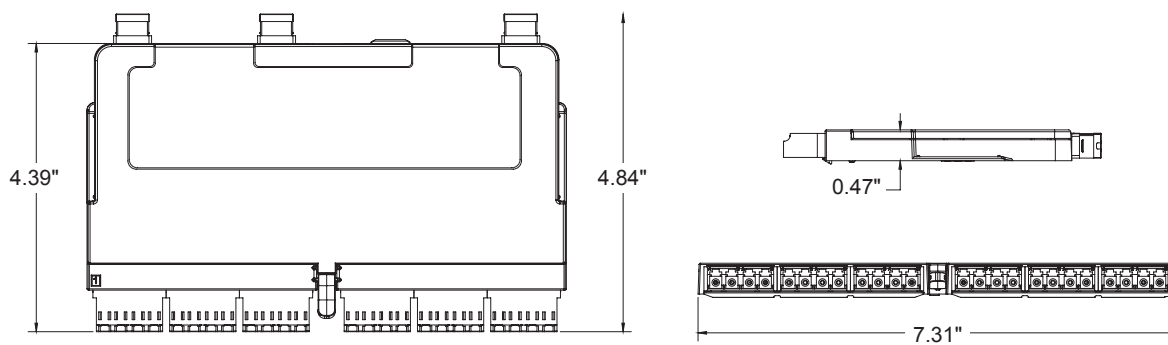
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**PRODUCT SPECIFICATIONS**  
**OPT-X™ HDX Unity Base8/24 Breakout MTP® Cassettes**

24-fiber MTP to 24-fiber LC shuttered



3x8-fiber MTP to 24-fiber LC shuttered



OPT-X HDX Unity Base8/24 Breakout MTP Cassettes

**OPT-X HDX UNITY BASE8/24 BREAKOUT MTP CASSETTES**

Description	Part No.
HDX OM4, 8-fiber, MTP® (male) to LC shuttered (aqua), 4:1 breakout	48LSM1-41C
HDX OM4, 8-fiber, MTP (male) to LC shuttered (heather violet), 4:1 breakout	48GSM1-41C
HDX OM5, 8-fiber, MTP (male) to LC shuttered (lime green), 4:1 breakout	M58GSM1-41C
HDX OS2, 8-fiber, MTP (male) to LC shuttered (blue), 4:1 breakout	U8LSM1-41C
HDX2 OM4, 3x8-fiber, MTP (male) to 24-fiber LC shuttered (aqua), 4:1 breakout	42LSM1-41C
HDX2 OM4, 3x8-fiber, MTP (male) to 24-fiber LC shuttered (heather violet), 4:1 breakout	42GSM1-41C
HDX OM5, 3x8-fiber, MTP (male) to LC shuttered (lime green), 4:1 breakout	M52GSM1-41C
HDX2 OS2, 3x8-fiber, MTP (male) to 24-fiber LC shuttered (blue), 4:1 breakout	U2LSM1-41C
HDX2 OM3, 24-fiber, MTP (male) to 24-fiber shuttered LC (aqua) 12:1 breakout	32LSM2-21C
HDX2 OM4, 24-fiber, MTP (male) to 24-fiber shuttered LC (heather violet) 12:1 breakout	42GSM2-21C
HDX2 OM5, 24-fiber MTP (male) to 24-fiber LC shuttered (lime green), 12:1 breakout	M52GSM2-21C
HDX2 OM4, 24-fiber, MTP (male) to 3x8-fiber MTP (male), 3:1 breakout	42NM2-S5C
HDX2 OS2, 24-fiber, MTP (male) to 3x8-fiber MTP (male), 3:1 breakout	U2NM2-S5C

For other standard cassette configurations, see Online Configurator at [www.leviton.com/configurator](http://www.leviton.com/configurator)

For further support information, visit [leviton.com/ns/support](http://leviton.com/ns/support)

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