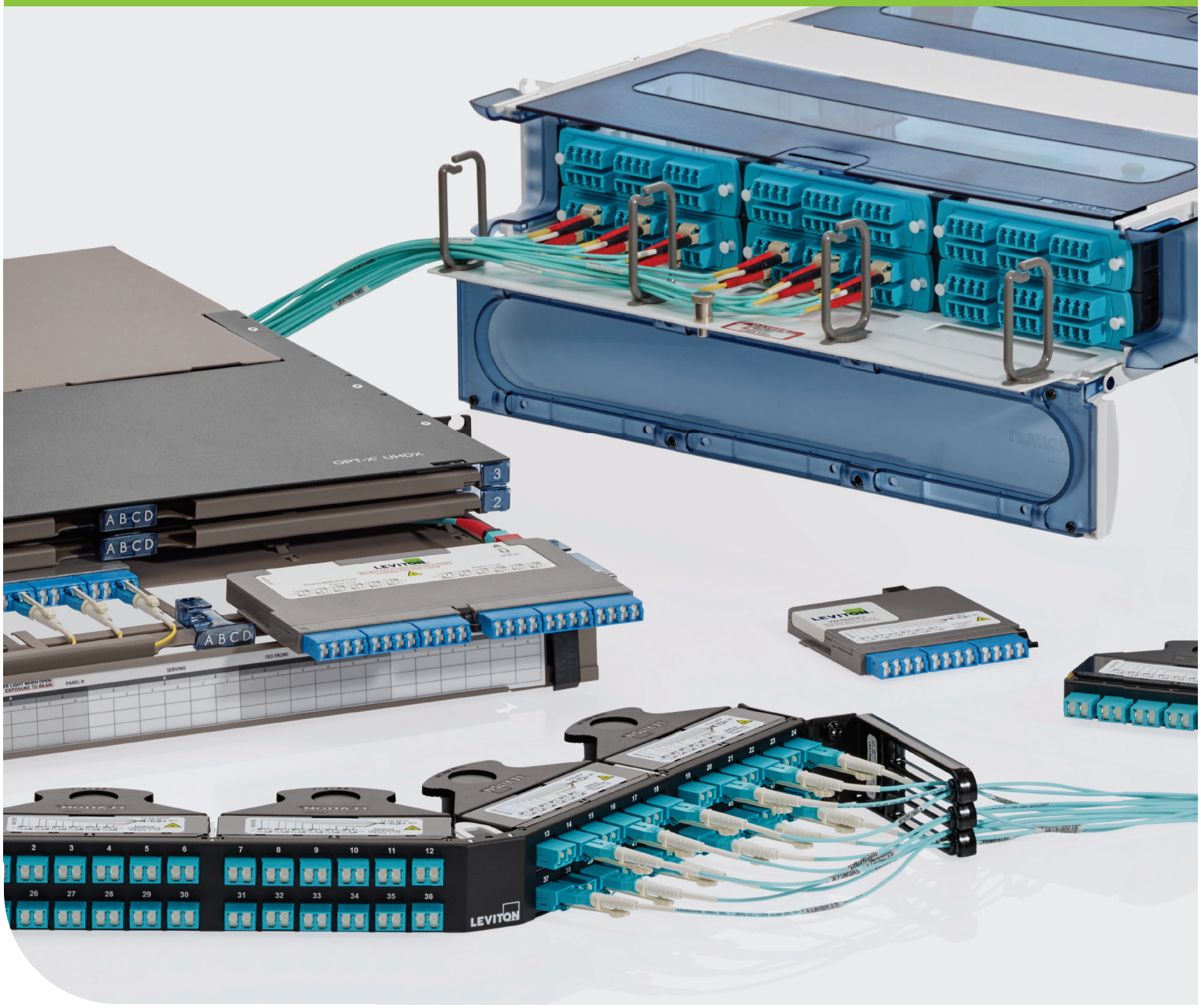
LEVITON®

OPT-X™ Systems Selection Guide

Global fiber optic patching solutions available everywhere.



Leviton Fiber Platforms and Performance Options

Whether your installation is small or large, simple or complex, you can rely on Leviton for a fiber cabling system that meets your requirements. The OPT-X™ family of solutions are versatile to meet specific network demands, ensuring migration options for future bandwidth growth.

Fiber Patching Platforms

The **OPT-X HDX** patching platform improves network manageability with integrated cable management and port labeling in both closed and open patching options. OPT-X HDX Adapter Plates and Cassettes can accelerate deployments and MACs through easy one-hand operation. HDX enclosures and panels offer manageable density at 96 fibers per RU, while ultra-high density UHDX enclosures support up to 144 fibers per RU.

The **e2XHD** patching system provides a high-density 48-port solution, where fast deployment and simple maintenance are priorities. e2XHD fiber and copper cassettes quickly snap-in and pull out of high-density 96 fiber panels, making installation, moves, adds, and changes easier and faster.

The **OPT-X SDX** platform allows for easy field termination of connectors and splicing in a standard-density footprint. SDX cassettes and precision-molded adapter plates offer flexible connections and storage options to meet any project need.

Channel Characteristics & Performance

The **OPT-X Unity** solution of trunks, array patch cords, and cassettes exceed industry standards, offering ultra low loss connectivity for superior channel performance, extended distances, and easy migration to 40, 100, 200, 400 Gb/s and beyond.

OPT-X Engage pre-terminated trunks, array patch cords, and cassettes offer low-loss connectivity and high performing solutions best suited for deployments up to 400G.

Premises cable solutions include bulk cable and field terminated connectivity that deliver reliable, standard performance connectivity, primarily for point-to-point channels in small data centers and enterprise networks. They are designed for installation with the OPT-X SDX platform.

Using this system selection guide:

Fiber systems are comprised of all of the components in an end-to-end optical channel between transceivers. This includes patch cords, cassettes or adapters, enclosures or panels and trunks or bulk cable.

Selecting the right system comes down to two choices.

- **Channel characteristics and performance** for the network application
- **Patching Platform** based on the installation or MAC work needs

This system selection guide gives you two ways to select the right system for your application.

- **Path A:** Choose the patching platform first, and then the channel characteristics and performance
- **Path B:** Choose the channel characteristics and performance first, and then the patching platform

Leviton OPT-X™ Fiber Systems

Leviton fiber systems are global solutions available to specify anywhere in the world.

HDX Unity

- Highest performance, lowest optical loss connectivity
- Supports applications requiring extended distances and multiple connection points between active devices
- Open and closed patching options. Accepts Base-8, -12, and -24 configurations. Supports migration to 400 Gb/s and beyond
- Most feature-rich high- and ultra-high density HDX connectivity platform

HDX Engage

- Most feature-rich high- and ultra-high density HDX connectivity platform
- Low loss connectivity supports streamlined networks with shorter links, fewer connection point in channel
- Open and closed patching options. Accepts Base-8, and -12 configurations. Offers optical reach beyond industry standards at speeds up to 400 Gb/s

E2X Unity

- Highest performance, lowest optical loss connectivity
- Supports applications requiring extended distances and multiple connection points between active devices
- A high-density patching platform for pre-terminated fiber and copper, covering a wide variety of network needs and deployment locations.
- Accepts Base-8, -12, and -24 configurations. Supports migration to 400 Gb/s and beyond

E2X Engage

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- A high-density patching platform for pre-terminated fiber and copper, covering a wide variety of network needs and deployment locations.
- Offers optical reach beyond industry standards at speeds up to 400 Gb/s

SDX Premises

- A versatile standard density patching system with 72 fibers per rack unit
- Offers a range of enclosure and panel options
- Includes field termination connectivity, easy splicing, and simplified MAC work

Path A:

Choose an OPT-X™ Fiber System

by **patching platform**, then **channel characteristics and performance**

HDX

Typical Patching Location(s)	Areas with limited MAC work (e.g., Core and EoR)
Density	Ultra High (144 LC connections per RU) or High (96 LC connections per RU)
Installed Environment and Access	Front-loading panel and enclosure options for cabinets or open racks
Ongoing Maintenance	Enhanced and integrated labeling and cable management

Unity

Connection Points	≥4
Channel Requirements	Extended Reach with ultra low loss components
Base Cabling Structure	8, 12, or 24 Fibers
Cable Termination	Pre-Terminated
Recommended Network Speeds	Any (1.6T+)

→ HDX Unity

vs.

Engage

Connection Points	2-6
Channel Requirements	Enhanced Reach with low loss components
Base Cabling Structure	8 or 12 Fibers
Cable Termination	Pre-Terminated
Network Speeds	Up to 400G

→ HDX Engage

vs.

e2XHD

Typical Patching Location(s)	Areas with regular MAC work in need of higher density, (e.g., Edge or ToR)
Density	High (96 LC connections per RU)
Installed Environment and Access	Rear-loading panels with open patching
Ongoing Maintenance	Efficient cable fiber management and port numbering

Unity

Connection Points	≥4
Channel Requirements	Extended Reach with ultra low loss components
Base Cabling Structure	8, 12, or 24 Fibers
Cable Termination	Pre-Terminated
Recommended Network Speeds	Any (1.6T+)

→ E2X Unity

vs.

Engage

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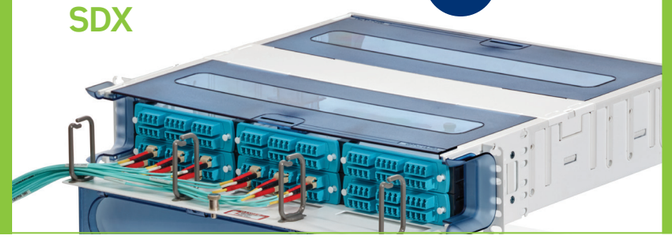
→ E2X Engage

vs.

SDX



Typical Patching Location(s)	Areas with regular MAC work (e.g., TRs and meet-me rooms)
Density	Standard (72 LC connections per RU)
Installed Environment and Access	Front-loading panel and enclosure options for cabinets, open racks, or wall-mount options
Ongoing Maintenance	Basic fiber management and enhanced labeling options

Premises

Connection Points	≤4
Channel Requirements	Standard Reach and loss
Cable Termination	Field Terminated
Recommended Network Speeds	Up to 100G

→ SDX Premises

Path B:

Choose an OPT-X™ Fiber System

by **channel characteristics and performance**, then **patching platform**

Unity Ultra Low Loss

Connection Points	≥4
Channel Requirements	Extended Reach with ultra low loss components
Base Cabling Structure	8, 12, or 24 Fibers
Cable Termination	Pre-Terminated
Recommended Network Speeds	Any (1.6T+)

HDX

Typical Patching Location(s)	Areas with limited MAC work (e.g., Core and EoR)
Density	Ultra High (144 LC connections per RU) or High (96 LC connections per RU)
Installed Environment and Access	Front-loading panel and enclosure options for cabinets or open racks
Ongoing Maintenance	Enhanced and integrated labeling and cable management

HDX Unity

vs.

e2XHD

Typical Patching Location(s)	Areas with regular MAC work in need of higher density, (e.g., Edge or ToR)
Density	High (96 LC connections per RU)
Installed Environment and Access	Rear-loading panels with open patching
Ongoing Maintenance	Efficient cable fiber management and port numbering

E2X Unity

vs.

Engage Low Loss

Connection Points	2-6
Channel Requirements	Enhanced Reach with low loss components
Base Cabling Structure	8 or 12 Fibers
Cable Termination	Pre-Terminated
Recommended Network Speeds	Up to 400G

HDX

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HDX Engage

vs.

e2XHD

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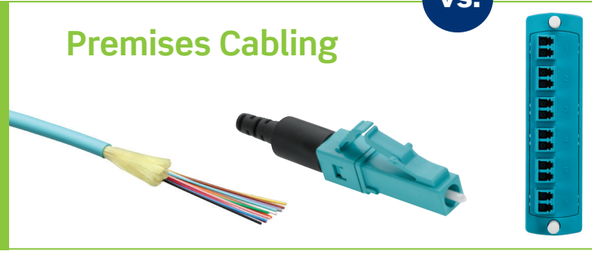
E2X Engage

vs.

Premises Cabling



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SDX

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Ongoing Maintenance	Basic fiber management and enhanced labeling options

SDX Premises

LEVITON®

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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