

HD3U Rack Mount Enclosure

Modular 3U panel · 12x HD adaptor plates · LC up to 432F · SC up to 144F



HD3U with the front door down and 12 HD 24-port adaptor plates (LC/UPC shown).

OVERVIEW

One modular 3U chassis, up to 432 fibers

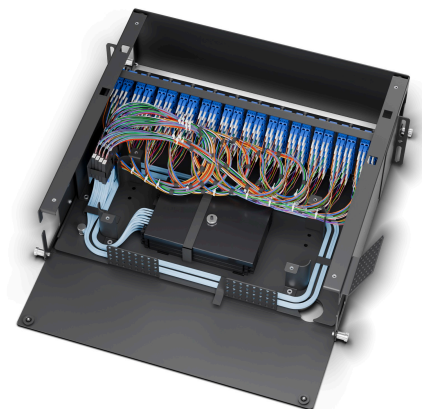
The One Optics HD3U is a modular 3U rack mount fiber enclosure built around 12 HD adaptor plate positions. Build it with ribbon pigtailed and 4 splice trays for up to 288 LC fibers, or load it with 36-port splice cassettes for up to 432 LC fibers. SC builds go up to 144 fibers.

The HD3U is also modular in the rack: two or three units mount together on 6U or 9U stacking brackets, giving you a high-count splice and patch point that grows a chassis at a time.

3U 19 in
RACK MOUNT**12x**
HD ADAPTOR
PLATES**288F**
LC · RIBBON
PIGTAILS + 4
SPLICE TRAYS**432F**
LC · SPLICE
CASSETTES**144F**
SC CAPACITY**USA**
MADE IN USA

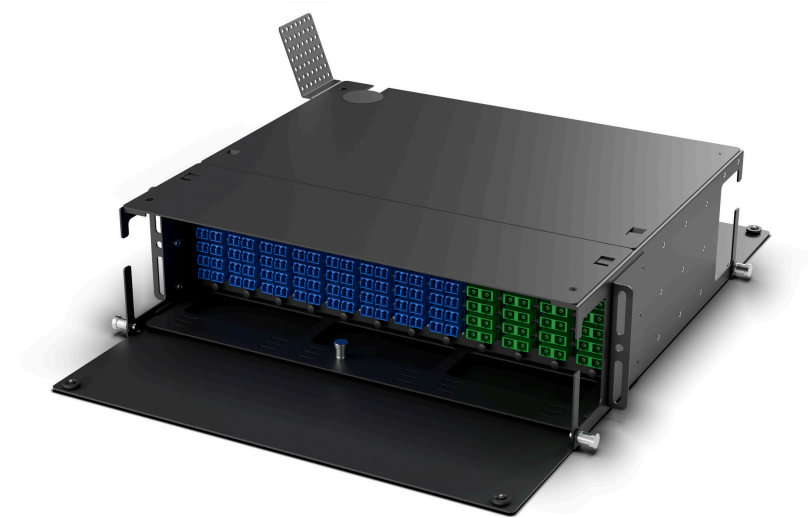
FEATURES & APPLICATIONS

- ✓ **Modular design:** 12 HD adaptor plate positions in 3U
- ✓ **Made in USA**
- ✓ **19 in rack mount, 3U:** 5.24 in H x 17.70 in W x 16.06 in D [133.0 x 449.6 x 408.0 mm]; 19.01 in [482.8 mm] W with rack ears
- ✓ **Two builds:** ribbon pigtailed and 4 splice trays (up to 288F LC) or splice cassettes (up to 432F LC)
- ✓ **Stackable:** 6U (2 units) and 9U (3 units) stacking brackets
- ✓ **SC/UPC, SC/APC, LC/UPC and LC/APC;** LC duplex and SC duplex adaptors, plus LC quad on patch-only or HD3US builds; singlemode or multimode
- ✓ Corning fiber ribbon singlemode pigtailed for high-count LC; loose tube 900 µm pigtailed for lower counts
- ✓ Removable magnetic front door with spring latch; removable front and rear lids; sliding tray for splice access
- ✓ Rear cable entry with strain relief, plus a 1.5 in [38.1 mm] pass-through
- ✓ Compliant with IEC and TIA/EIA standards; RoHS and REACH compliant
- ✓ **Applications:** data center and enterprise networks, indoor

**288F LC build.** Lids off: 12 HD 24-port adaptor plates, ribbon singlemode pigtailed, and black metallic splice trays.

CONFIGURATION

One chassis. Twelve HD adaptor plates.



Front door down, shown with 8 LC/UPC and 4 SC/APC plates.

Start with one 3U chassis and load 12 HD adaptor plates, or 12 splice cassettes. Pick the connector, polish, fiber style and fiber type, and the HD3U is built and loaded to suit.

FIBER STYLE	Ribbon (R) for high-count LC; loose tube (L) for lower counts; splice cassettes (C) for up to 432F
CONNECTOR	SC or LC
POLISH	UPC or APC
FIBER TYPE	Singlemode or multimode
ADAPTORS	LC duplex, SC duplex; quad: A, NT
LC CAPACITY	Up to 288F with ribbon pigtails and 4 splice trays included; up to 432F with splice cassettes
SC CAPACITY	Up to 144F

HD ADAPTOR PLATE & CASSETTE OPTIONS



LC/UPC



LC/APC



SC/UPC



SC/APC



LC quad
A OR NT BUILDS



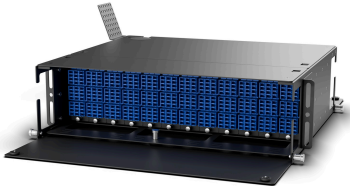
Splice cassette
36 LC PORTS

TWO WAYS TO BUILD IT



288F LC · Ribbon pigtails + 4 splice trays

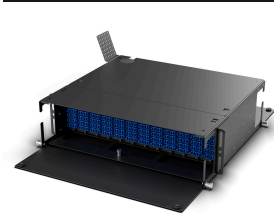
Ribbon LC build, 288F: 12 HD 24-port adaptor plates, ribbon singlemode pigtails, and black metallic splice trays.



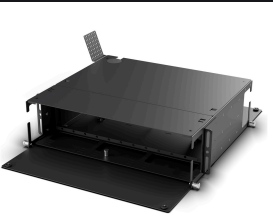
432F LC · Splice cassettes

Twelve 36-port splice cassettes take the adaptor plate positions. Splicing and slack storage are inside each cassette, for 432 LC fibers in 3U.

ORDER IT UNLOADED



OPTION A
Adaptors only
The chassis ships with HD adaptor plates loaded in the connector and polish you choose, with no pigtails and no splice trays. Example:
HD3U-A-LC-288



OPTION E
Empty
The bare chassis, with no adaptor plates, pigtails or splice trays. All 12 HD adaptor positions are open for the plates or splice cassettes you add. Order as **HD3U-E**

COMPANION SPLICE PANEL

Patch in the HD3U. Splice in the HD3US.



REAR

FRONT

Six HD3U (6 x 288 = 1,728 ports) on two 9U brackets fully populate one HD3US (6 trays x 288F = 1,728F). Rear: lids and rear panels off; each HD3U's ribbon pigtails drop through the aligned 1.5 in pass-through knockouts into its own HD3US tray. Front: HD3U doors closed, HD3US door open with one tray slid out.

If you prefer to keep splicing out of the patch panel, splice in a separate HD3US splice-only panel instead of in the splice trays at the rear of the HD3U.

HD3U handles patching. Order it as an NT build (ribbon pigtails, no splice trays: **HD3U-R-LC-288-NT**), or adaptors only (Option A).

Pigtails drop out through the knockouts. Each HD3U has a 1.5 in [38.1 mm] pass-through knockout at the rear, aligned through the base, sliding tray and rear lid, so ribbon pigtails drop straight down to splice remotely.

One HD3US serves up to six HD3U panels. 6 sliding splice trays x 288F = 1,728F in 3U, one tray per 288F HD3U (6 x 288F = 1,728F).



COMPANION

HD3US splice-only panel

3U, 6 sliding ribbon splice trays, 1,728F total. Order as **HD3US**; see the HD3US datasheet.

6U AND 9U STACKED CONFIGURATIONS

An HD6U is two HD3U units on a pair of 6U stacking brackets; an HD9U is three HD3U units on a pair of 9U stacking brackets. Every unit keeps its own doors, lids and sliding tray. Codes follow the HD3U key with the HD6U or HD9U prefix.

PART NUMBER	BUILD	LEGACY CODE
HD6U · 6U · 2X HD3U · 24 HD ADAPTOR POSITIONS		
HD6U-R-LC-576	576 ports LC/UPC (24 plates x 24), ribbon pigtails, splice trays	–
HD6U-R-LC-576-NT	576 ports LC/UPC, ribbon pigtails installed, no splice trays (NT): splice in an HD3US	–
HD6U-R-LC-432	432 ports LC/UPC (18 plates x 24), ribbon pigtails, splice trays	HD6U432LCR
HD6U-R-SA-288	288 ports SC/APC (24 plates x 12), ribbon pigtails, splice trays	HD6U288SAR
HD6U-A-SA-288	Adaptors only: 288 ports SC/APC; no pigtails, no splice trays	HD6U-SCA-E
HD6U-C-LC-864	864 ports LC/UPC, 24x 36-port splice cassettes (configure to order)	–
HD6U-E	Two empty chassis on 6U stacking brackets	–
HD9U · 9U · 3X HD3U · 36 HD ADAPTOR POSITIONS		
HD9U-R-LC-864	864 ports LC/UPC (36 plates x 24), ribbon pigtails, splice trays	–
HD9U-R-LC-864-NT	864 ports LC/UPC, ribbon pigtails installed, no splice trays (NT): splice in an HD3US	–
HD9U-R-SC-432	432 ports SC/UPC (36 plates x 12), ribbon pigtails, splice trays	–
HD9U-R-SA-432	432 ports SC/APC (36 plates x 12), ribbon pigtails, splice trays	HD9U432SAR
HD9U-A-SC-432	Adaptors only: 432 ports SC/UPC; no pigtails, no splice trays	HD9U-432SCU-E
HD9U-C-LC-1296	1,296 ports LC/UPC, 36x 36-port splice cassettes (configure to order)	–
HD9U-E	Three empty chassis on 9U stacking brackets	–

Part numbers follow the HD3U key: **A** = adaptors only, **E** = empty chassis, **-NT** = ribbon pigtails installed, no splice trays, for splicing in a separate HD3US. Legacy codes for the same builds are shown for reference. Other combinations within capacity are configured to order. Pricing: contact sales. Loose tube (L) builds are single-unit only, up to 144F.

MODULAR STACKING

Stack two or three units with 6U and 9U brackets



Three HD3U units on 9U stacking brackets, front doors down.

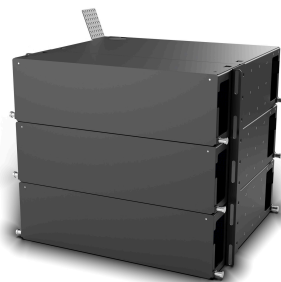
Each HD3U mounts on its own rack ears, or two or three units join on a pair of stacking brackets: the 6U bracket holds 2 units and the 9U bracket holds 3. Every unit keeps its own doors, lids and sliding tray, so you can work on one without disturbing the others.

	3U · 1 UNIT	6U · 2 UNITS	9U · 3 UNITS
MAXIMUM FIBERS			
LC, ribbon pigtails + 4 splice trays	288	576	864
LC, splice cassettes	432	864	1,296
SC	144	288	432

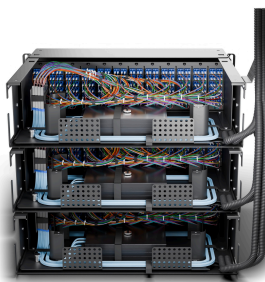
6U and 9U figures are "up to" totals: 2x and 3x the single-unit maximum.
Loose tube pigtails: up to 144F on a single HD3U; not offered on stacks.



Two HD3U units on 6U stacking brackets.



9U stack, front, doors closed.



9U stack, rear, with rear lids and doors off: each unit loaded with the 288F ribbon and 4 splice trays; 864F total.

36-PORT SPLICE CASSETTE



Nine LC quad adaptors give 36 LC ports on an HD-size front. Ribbon or loose tube inside: in the ribbon build (shown) the color-coded 900 µm fan-out from the LC boots runs under the splice tray and the clear ribbon is coiled on the tray around the splice chip and mass-fusion spliced; in the loose tube build the 900 µm fibers are coiled on the tray and single-fusion spliced. The lid opens for access. Twelve cassettes fill one HD3U for 432 LC fibers.

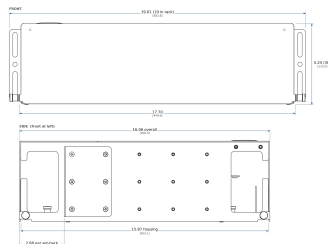
ACCESSORY

Compatible: MPC-24-LC-A / -U MPO-to-LC pass-through cassettes

An MPO-to-LC pass-through cassette for the HD adaptor positions, with no field splicing: two MTP-12 APC adaptors at the rear and 12 LC/UPC duplex adaptors (24 fibers) at the front. OS2 singlemode, Type A (-A) or Universal (-U) polarity.

MPC-24-LC-A	2x MTP-12 APC (rear) to 12 LC/UPC duplex (front), 24F OS2, Type A
MPC-24-LC-U	Same, Method B / Universal polarity

DIMENSIONS



Front and side views, doors closed. Dimensions in inches [mm].

Height	5.24 in [133.0 mm]
Width, body	17.70 in [449.6 mm]
Width, rack ears	19.01 in [482.8 mm]
Depth, overall	16.06 in [408.0 mm]
Depth, housing	15.87 in [403.1 mm]

Included in the box: rack mount bracket kit for 19 in racks, strain relief bracket, laser light warning sticker, rack screws (4), 4 in zip ties (6), 8 in zip ties (6), Velcro and a port ID chart.

ENCLOSURE SPECIFICATIONS

Rack units	3U, 19 in rack mount
Dimensions (H x W x D)	5.24 x 17.70 x 16.06 in [133.0 x 449.6 x 408.0 mm]
Weight	Approx. 23 lb [10.4 kg], empty
Material	16 ga galvalneal steel, black powder coat
Origin	Made in USA
Capacity	LC: 288F (ribbon pigtails, 4 splice trays included) or 432F (splice cassettes); SC: 144F; loose tube: 144F

OPTICAL PERFORMANCE	SM LC/SC	MM LC/SC
Insertion loss, max / typ.	0.20 / 0.15 dB	0.20 / 0.15 dB
Return loss, UPC min.	55 dB	30 dB
Return loss, APC min.	65 dB	n/a

Slot type	12x HD adaptor plate positions
Adaptor types	LC duplex, SC duplex; LC quad (A or NT)
Fiber access	Front and rear doors, removable lids, sliding tray
Front cable management	Hinged door with integrated cable manager
Cable entry	Rear, with strain relief; 1.5 in [38.1 mm] pass-through
Stacking	6U (2 units) and 9U (3 units) brackets
288F pigtails	3 m [9.8 ft] overall: 18 in [457 mm] color-coded 900 µm fan-out, then ribbon; Corning fiber

ORDERING & CONFIGURATION EXAMPLES

Part number format **HD3U-[L/R/C/A]-[LC/LA/SC/SA]-[count]** or **HD3U-E** fiber style · connector/polish · count

PART NUMBER	DESCRIPTION	PRICING
HD3U-L-LC-72	Loose tube, 72 ports LC/UPC (6x 12-port LC plates), 3 m 900 µm single fusion pigtails and splice trays	Contact sales
HD3U-L-LC-144	Loose tube, 144 ports LC/UPC (12x 12-port LC plates), 3 m 900 µm single fusion pigtails and splice trays	Contact sales
HD3U-L-SC-72	Loose tube, 72 ports SC/UPC (6x 12-port SC plates), 3 m 900 µm single fusion pigtails and splice trays	Contact sales
HD3U-L-SC-144	Loose tube, 144 ports SC/UPC (12x 12-port SC plates), 3 m 900 µm single fusion pigtails and splice trays	Contact sales
HD3U-R-LC-144	144 ports LC/UPC (12 plates x 12), ribbon singlemode pigtails, 4 splice trays included	Contact sales
HD3U-R-LC-288	288 ports LC/UPC, ribbon singlemode pigtails, 4 splice trays included	Contact sales
HD3U-R-LC-288-NT	NT: 288 ports LC/UPC, ribbon pigtails installed, no splice trays; splice in a separate HD3US	Contact sales
HD3U-R-LA-288	288 ports LC/APC, ribbon singlemode pigtails, 4 splice trays included	Contact sales
HD3U-C-LC-432	432 ports LC/UPC, 12x 36-port splice cassettes (configure to order)	Contact sales
HD3U-A-LC-288	Adaptors only: 288 ports LC/UPC on 12 HD 24-port adaptor plates; no pigtails, no splice trays	Contact sales
HD3U-E	Empty chassis: no adaptor plates, pigtails or splice trays	Contact sales
HD6U- / HD9U-	2 or 3 HD3U units on 6U or 9U stacking brackets (see page 3)	Contact sales
HD3US	Companion splice-only panel, 3U: 6 trays x 288F = 1,728F, for up to six HD3U	Contact sales
Custom	Other fiber types and port counts within capacity, configured to order	Contact sales

HOW TO READ THE PART NUMBER

HD3U/HD6U/HD9U-L/R/C/A-...

HD3U/HD6U/HD9U = 1/2/3 units. Fiber style:

L = 900 µm loose tube pigtails, R = ribbon pigtails, C = OOFc splice cassettes (LC/LA only), A = adaptor plates only, no pigtails or trays; E = empty chassis, no suffix

HD3U-R-LC/LA/SC/SA-...

LC = LC/UPC · LA = LC/APC · SC = SC/UPC · SA = SC/APC

HD3U-R-LC-288

Trailing number = fiber count (port count on A builds). Singlemode is standard; multimode available on request.

-NT = pigtails installed, no splice trays, for splicing in a separate HD3US

Test data and certificate of conformance available on request. Specifications subject to change. Rev A · 2026-10.