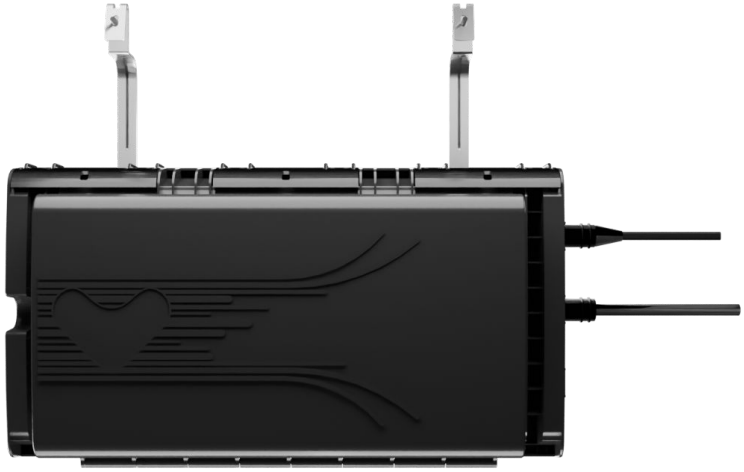
Product Specification

Aerial FDH

Fiber Distribution Hub



Product Details

STL's Aerial Fiber Distribution Hub (FDH) is a key component in FTTH (Fiber to the Home) PON networks, providing a centralized point for fiber cable termination, optical splitting, and distribution. It streamlines the interconnection between feeder and distribution cables, enabling efficient high-speed service delivery to residential and business subscribers.

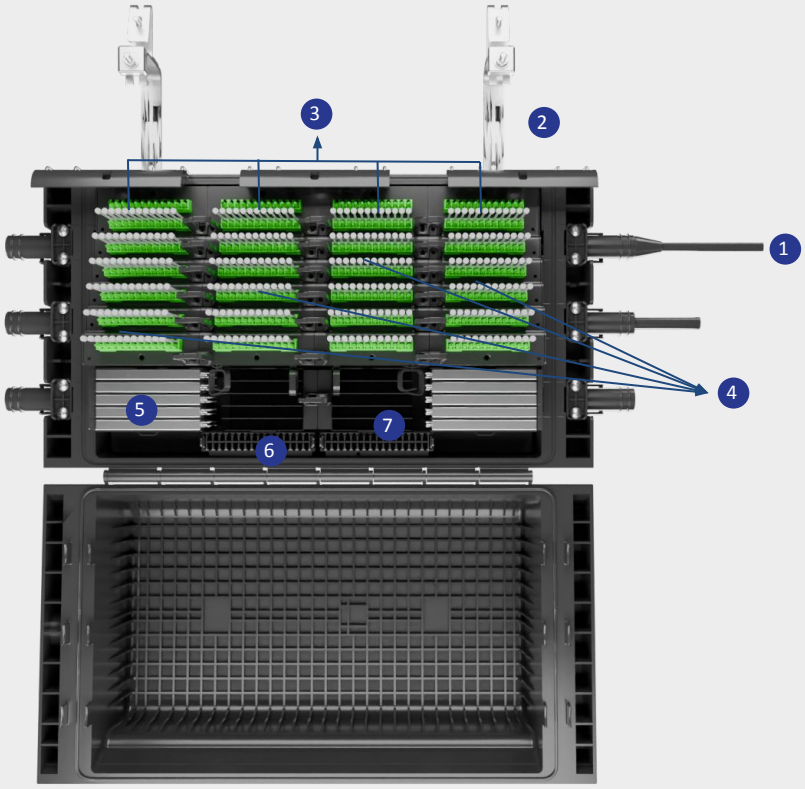
Designed for deployments where ground-mounted cabinets are not feasible and pole-mounting is restricted, the Aerial FDH features an offset bracket for secure strand-mount installation below existing lashed telecom cables. This configuration minimizes permitting challenges and enhances physical security compared to ground-based enclosures.

STL's Aerial FDH supports both centralized and distributed split architectures, and simplifies service connections, reconfigurations, and field testing within the outside plant network.

Key Features And Benefits

- **Pre-Configured for Fast Deployment:** Supplied with 100-foot factory-terminated and tested IBR (Intermittently Bonded Ribbon) feeder and distribution cables, with 12, 24, or 48-fiber feeder options. Available in 144 or 288 LC output ports.
- **Splitter Capacity & Flexibility:** Supports up to 10 splitter slots using 1x16, 1x32 or 1x64 PLC splitters. Splitters can be factory-installed or added in the field as required.
- **Optimized Fiber Management:** Intuitive routing paths with bend radius protection, slack storage, and an integrated parking lot for up to 64 fibers. All splitter tails use 1.2mm A2 bend-insensitive fiber.
- **Rugged & Compact Design:** Molded IP55-rated hinged enclosure (21" x 11" x 8" / 540 x 288 x 205 mm) ensures durability in outdoor aerial applications. LC connectors with pull tabs enable easy handling in high-density layouts.

Components



1. Fiber Feeder and Distribution Cables
2. Aerial Strand Mount Bracket
3. FDH Feeder Ports
4. FDH Distribution Ports
5. Splitter Slots
6. Parking Lot
7. Splitter Pigtail Storage

Technical Specifications

Dimensions	21” x 11” x 8” (540 x 288 x 205)
Weight	~20lbs (9kg)
Feeder Ports	12-48
Distribution Ports	96-288
Cable Entrances	6
Mounting Options	Aerial, Pedestal
Splitter Slots	10
Connector Types	LC/APC with Push-Pull tabs
Cable Types	12-48F IBR Flat, 96-288 IBR Round

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

1XN PLC SPLITTERS: ABS BOX, 1.2MM PIGTAILS

1xN PLC Splitters are designed to be used in the point to multipoint PON optical distribution networks and are easily deployed in pedestal, cabinet and splice enclosure environments for Telco and MSO Networks. PLC Fiber Optic Splitters feature high quality, low insertion loss and high reliability. With splitter variants from 1x2 through 1x64 the 1xN PLC splitters offer the highest of flexibility for your network needs.

FEATURES

- Variants: 1x16, 1x32 and 1x64
- Connector: LC-APC, LC APC With Pull Tabs
- Operating Window: 1260nm-1650nm
- I-Temp: -40 ~ 85 °C
- Low Insertion Loss
- Red Jacket On “IN” Fiber

APPLICATIONS

- FTTX Tap Architecture
- Telco and MSO Networks
- Passive Optical Networking

Technical Specifications

Description	Units	Specification		
Split Ratio	-	1×16	1×32	1× 64
Insertion Loss	dB	13.7	16.7	<20.7
Uniformity	dB	1.0	1.5	<2.0
Polarization Dependent Loss	dB	0.3	0.3	<0.4
Wavelength Dependent Loss	dB	0.5	0.5	1.0
Return Loss	dB	≥55		
Directivity	dB	≥55		
ABS Box Dimensions	mm	100 x 80 x 10		
Operating Wavelength	nm	1260-1625		
Fiber Type	-	G657A2		
Fiber Tail length	M/in	0.6/24		
Connector Type	-	LC-APC OR LC-APC PULL TAB		
Storage/Operating Temperature	°C	-40 ~ +85		

For additional information please contact your sales representative.

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Ordering Information	
Part Number	Description
STL-A-116-LCA-LCA-P	PLC PIGTAIL 1X16 SPLITTER, ABS BOX, 1.2MM FIBER PIGTAILS, 0.6 METERS, LSZH, LC-APC WITH PULL TABS SHORT BOOT, (IN-RED TUBE, OUT-BLACK TUBE)
STL-A-132-LCA-LCA-P	PLC PIGTAIL 1X32 SPLITTER, ABS BOX, 1.2MM FIBER PIGTAILS, 0.6 METERS, LSZH, LC-APC WITH PULL TABS SHORT BOOT, (IN-RED TUBE, OUT-BLACK TUBE)
STL-A-164-LCA-LCA-P	PLC PIGTAIL 1X64 SPLITTER, ABS BOX, 1.2MM FIBER PIGTAILS, 0.6 METERS, LSZH, LC-APC WITH PULL TABS SHORT BOOT, (IN-RED TUBE, OUT-BLACK TUBE)
NOTE: 1xN PLC SPLITTERS CAN BE ORDERED IN MULTIPLE CONFIGURATIONS. PLEASE CONTACT US FOR VARIATIONS OF PIGTAIL TYPE, LENGTH, OR CONNECTOR TYPES	

Testing

In addition to the standard sample testing for performance, such as Insertion Loss and Return Loss, the connectors on each splitter undergo additional 3D Ferrule End Face Geometry Testing. At ambient temperature this testing will measure ferrule radius, spherical fiber undercut, and apex offset to ensure each connector meets the given specification prior to shipping.

For additional information please contact your sales representative.

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Product Ordering Code

Product Type	No. of Distribution Port	No. of Input Port	Type of Connector	Distribution Cable Type	Input Cable Type	No. of Splitter	Type of Splitters	Cable Length Input & Distribution	Customisation
AFD	B	2	1	D	G	0	0	100F	XXXX

Product Type

AFD	Aerial FDH

Distribution Port

A	096
B	144
C	288
D	432

Input Port

1	12F
2	24F
3	48F

Connector Type

1	LC/APC
2	SC/APC
3	LC/PC
4	SC/PC

Distribution Cable Type

I	IBR
D	Duct Lite Loose Tube A2

Input Cable Type

F	4X8 Flat IBR
G	4X8 Flat Loose tube

Splitter

0	No splitter
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Type of Splitter

0	No Splitter
1	1x4
2	1x8
3	1x16
4	1x32
5	1x64
6	1X64 4# &1X32 1#
7	1X64 2# &1X16 1#

Input Cable Type

100F	100ft

Customisation

XXXX	No Customisation

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