

FieldSmart® Fiber Distribution Hub (FDH) 864-Port PON Cabinet



Application

FieldSmart Fiber Distribution Hub (FDH) 864-Port PON Cabinet provides an interconnect environment from the feeder network through the optical passive splitter to the distribution network. Designed for the outside plant environment, these cabinets provide a single distribution point to distribute FTTH in urban or dense neighborhoods. Providing distribution scalability from 12 to 864 ports, network architecture can be maximized for both existing subscribers as well as future growth opportunities.

Description

The FieldSmart FDH 864-Port PON Cabinet is the complete solution for managing up to 864 port distribution fibers for an outside plant FTTx PON application. Integrated into the cabinet design is the 12 port Clearview® Cassette, providing multiple cabinet configurations and allowing the service provider to align the investment in capital equipment to the turn-up of revenue-generating circuits.



The FieldSmart FDH 864-Port PON Cabinet incorporates a new pyramid shaped roof/solar shield and venting ports, providing additional protection for deployed fiber. Mounting options include pad or vault mounted with either a 4" or 12" riser.

Features and Benefits

Integrity

- Terminations are designed and tested to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Compliant to Telcordia GR-20, GR-487 and GR-3125
- Designed to meet NEMA 4 specifications
- Constructed with 0.090 aluminum
- Powder coated for additional protection
- 300 series stainless steel fasteners used on all cabinets
- Optional 4" and 12" risers, can be stacked to raise cabinet if required

Protection

- 12-fiber Clearview Cassette protects fiber from environmental and human factors
- Rugged cable clamps protect the OSP cable breakouts from twisting and pistoning
- Patch only buffer tubes are fully protected with ruggedized bend-limiting tubing
- Snake skin sleeving provides additional buffer tube slack storage protection and manageability for patch and splice (Clearfield's in-cassette splicing solution) configurations
- WaveSmart Ruggedized Splitters are built with ruggedized jacketing and bend-insensitive fiber for all input and output legs
- Pyramid roof and venting provide additional protection in all environments

Access

- Clearview Cassette allows for quick visual troubleshooting without opening cassette
- Front access to pre-terminated assemblies with Clearview removable adapter plate
- Two captive fasteners for quick removal of individual cassettes for trouble shooting, splicing or replacing
- Front and rear access doors
- Bottom exit/entrance for fiber cables

Investment

- Fiber is deployed in increments of 12, providing the users the ability to scale from 12 ports to full capacity, aligning capital investment with network layout or subscriber revenue
- Express ports allow for extensions or parallel networks through the cabinet
- Patch and splice configurations eliminate costs associated with additional hand-holes and splice cases

FieldSmart® Fiber Distribution Hub (FDH)

864-Port PON Cabinet



Technical Specifications

| FieldSmart FDH 864-Port PON Cabinet | |
|--|--|
| Cabinet Dimensions (Without Risers or Pole Mount Brackets) | 41.89" W x 18.53" D x 37.92" H |
| Optional Risers (same riser as 288 cabinet) Weight and Exterior Dimensions | 4" (12 lbs.) or 12" (25 lbs.) 41.89" W x 14.95" D x 4" or 12" High |
| Weight | Approx. 95 lbs. |
| Feeder/Express Ports | Up to 96 |
| Cable Entrances | 12 - Bottom only |
| Mounting Options (Hoist Kits Included with Each Cabinet) | Vault mount or pad mount |
| Splitter Slots for WaveSmart Ruggedized Splitters | 28 |
| Cassette Type Supported | Clearview Blue |
| Connector Types | SC/UPC, SC/APC, LC/UPC, LC/APC |
| Cable Types | Indoor/Outdoor, Outdoor (Riser/Non-Rated), Outdoor Armored (Riser/Non-Rated) |
| Splice Capacity | 12 splices in each Clearview Cassette |
| Material | 0.090 aluminum with almond powder coating |

Accessories

- Risers: 4" and 12" (101.60 mm or 304.80 mm)
- Exterior Ground Box - Available with 12" Riser Only
- WaveSmart Ruggedized Splitter
- Mid-Span/Feed-Through Plate Kit

Configured Part Numbers

R - H - - - - - XXXM or XXXF

1 2 3 4 5 6 7 8 9 10 11

1 Select Cabinet Riser/Mounting

A = 4" (101.60 mm)
B = 12" (304.80 mm)

2 Select Feeder

1 = 12 in a cassette
2 = 24 in 2 cassettes
3 = 36 in 3 cassettes
4 = 48 in 4 cassettes
5 = 60 in 5 cassettes
6 = 72 in 6 cassettes
7 = 84 in 7 cassettes
8 = 96 in 8 cassettes
Z = No Feeder

3 Select Distribution Port Count

012 = 12 144 = 144
024 = 24 288 = 288
036 = 36 576 = 576
048 = 48 864 = 864
072 = 72 ZZZ = No Dist.
096 = 96

4 Select Connector

A = SC/UPC
C = SC/APC
F = LC/UPC DX
H = LC/APC DX

5 Select Mode / Type

1 = Singlemode – non-ribbon
2 = Singlemode – ribbon

6 Select Jacket Construction

B = OSP Riser
E = OSP, Non-rated
F = 900 µm TB Patch and Splice
M = OSP Armored (Non-Rated) Gel Filled

7 Select Qty. of 288/216 Fiber OSP Cables

0 = 0 A = 1-216
1 = 1-288 B = 2-216
2 = 2-288 C = 3-216
3 = 3-288 D = 4-216

8 Select Qty. of 144 Fiber OSP Cables

0 = 0 4 = 4
1 = 1 5 = 5
2 = 2 6 = 6
3 = 3

9 Select Qty. of 96 Fiber OSP Cables

0 = 0 5 = 5
1 = 1 6 = 6
2 = 2 7 = 7
3 = 3 8 = 8
4 = 4 9 = 9

10 Select Qty. of 72 Fiber OSP Cables

0 = 0 5 = 5
1 = 1 6 = 6
2 = 2 7 = 7
3 = 3 8 = 8
4 = 4 9 = 9

11 Select Ground Box/Extras

B = Clearview Blue Cassettes
M = Ground Box With 12" Riser Clearview Blue Cassettes

XXXM or XXXF

XXXM = Length in meters
XXXF = Length in feet

FieldSmart® Fiber Distribution Hub (FDH)

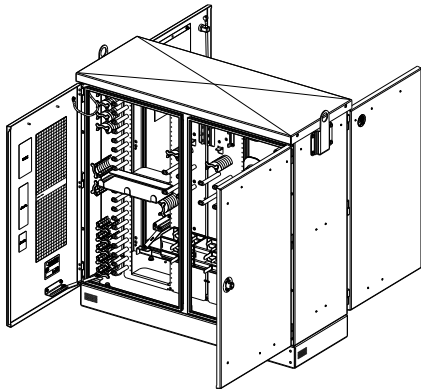
864-Port PON Cabinet



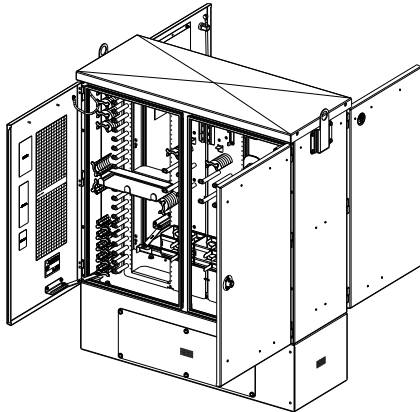
Pre-Configured Part Numbers

Vault Options

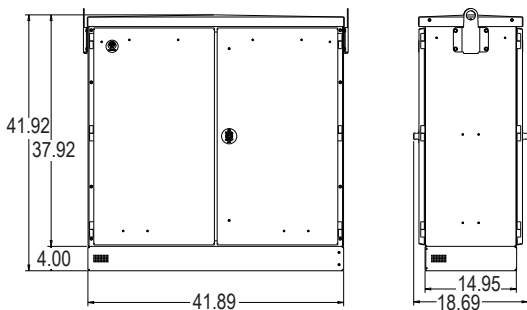
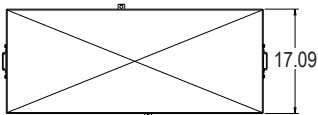
| Part Number | Description |
|-------------|--|
| V9B-HZP-F | Vault, Quazite 48 x 48 x 36" (1219.20 mm x 1219.20 mm x 914.40 mm), Complete Split Polymer Concrete Lid, Cut Out for 864 Cabinet, Fiberglass Straight Wall |



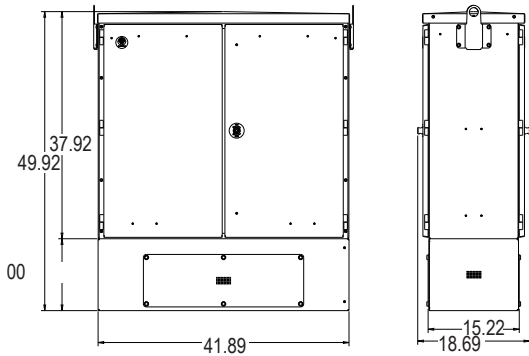
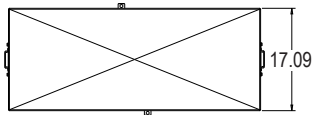
864 Interior View with 4" Riser



864 Interior View with 12" Riser



864 with 4" (101.60 mm) Riser - Dimensions



864 with 12" (304.80 mm) Riser - Dimensions