



#### **Application**

Clearfield's FieldSmart Fiber Distribution Hub (FDH) PON Cabinet family 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 deploy 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 PON Cabinet line is the complete solution for managing 12 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 PON Cabinet family incorporates a new pyramid shaped roof/solar shield and a reusable/replacable venting feature, providing additional protection for deployed fiber. Mounting options include pad, pole or vault mounted with either a 4" or 12" riser. An optional exterior ground box is also available.

#### **Features and Benefits**

#### Integrity

- · Terminations are designed, tested and certified to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Fiber cable certified to Telcordia GR-20 and GR-409. Designed, tested and certified to Telcordia GR-3125
- · 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 incassette 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 guick 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



144, 288, 432, 576 and 864-Port PON Cabinet —

## **Technical Specifications**

FieldSmart FDH	144 Port	288 Port	432 Port	576 Port	864 Port
Cabinet Dimensions (Without Riser)	22.29" H x 16.96" W x 18.51" D (566.16 mm x 430.78mm x 470.15mm)	35.11" H x 18.5" W x 16.98" D (891.79 mm x 469.90 mm x 431.29 mm)	37.83" H x 21.25" W x 18.44" D (960.88 mm x 539.75 mm x 468.38 mm)	35.11" H x 33.20" W x 18.47" D (891.79 mm x 891.79 mm x 469.14 mm)	37.83" H x 42.05" W x 18.47" D (960.88 mm x 1068.07 mm x 469.14 mm)
Weight (Without Riser)	40 lbs. (18.14 kg)	54 lbs (24.49 kg)	66 lbs (29.94 kg)	86 lbs (39.01 kg)	95 lbs (43.09 kg)
Port Density	144	288	432	576	864
Max. Feeder/Express Ports	24	48	48	96	96
Cables Entrances	6	6	6	12	12
Mounting Options (Hoist kits included with each cabinet)	Vault mount; pole mount; pad mount	Vault mount; pole mount; pad mount	Vault mount; pole mount; pad mount	Vault mount; pad mount	Vault mount; pad mount
Standard Riser Base	4"; 6 lbs (101.60 mm; 2.72 kg)	4"; 6 lbs (101.60 mm; 2.72 kg)	4"; 6 lbs (101.60 mm; 2.72 kg)	4"; 8 lbs (101.60 mm; 3.63 kg)	4"; 8 lbs (101.60 mm; 3.63 kg)
Optional Riser Base	12"; 12 lbs (304.80 mm; 5.44 kg)	12"; 12 lbs (304.80 mm; 5.44 kg)	12"; 16 lbs (304.80 mm; 7.26 kg)	12"; 20 lbs (304.80 mm; 9.07 kg)	12"; 20 lbs (304.80 mm; 9.07 kg)
Splitters Slots	4	9	14	18	28
Splitter Staging Capacity	72 144		44		
Cassette Types Supported	Clearview® Blue				
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC				
Cable Types	Indoor/Outdoor, Outdoor Armored, Ribbon and Loose Tube				
Door Locks	2 per door				
Venting	Built-in Replaceable Roof Vent				
Splice Capacity	12 splices in each Clearview Cassette				
Material	0.125 (3.175 mm) aluminum with almond powder coating  0.90 (2.286 mm) 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, Located in Riser
- · WaveSmart Ruggedized Splitter
- · Mid-Span/Feed-Through Plate Kit
- · Pole Mount Kits
- · GoreTex Filter Replacement 020800



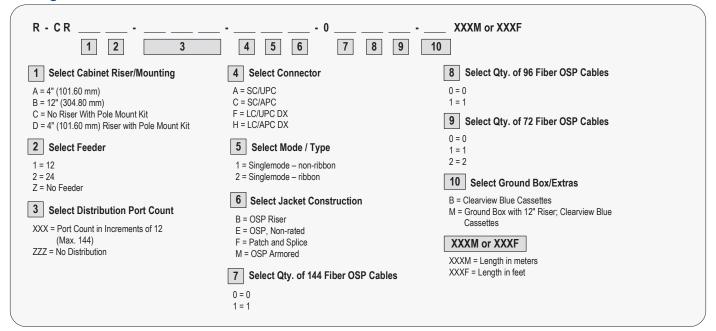


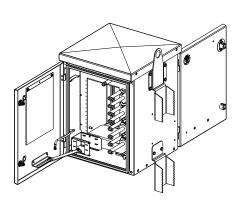
GoreTex Filter - 020800

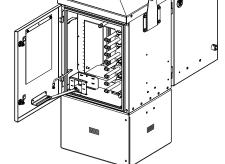


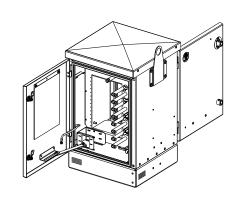
144, 288, 432, 576 and 864-Port PON Cabinet —

#### **Configured Part Numbers - 144 Port**









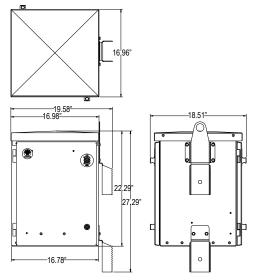
144 with Pole Mount Brackets

144 with 12" (304.80 mm) Riser

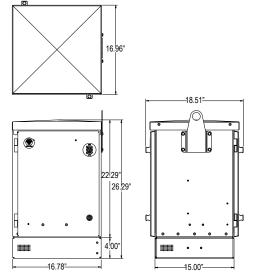
144 with 4" (101.60 mm) Riser



144, 288, 432, 576 and 864-Port PON Cabinet —



144 with Pole Mount Kit - Dimensions



144 with 4" (101.60 mm) Riser - Dimensions

## **Pre-Configured Part Numbers**

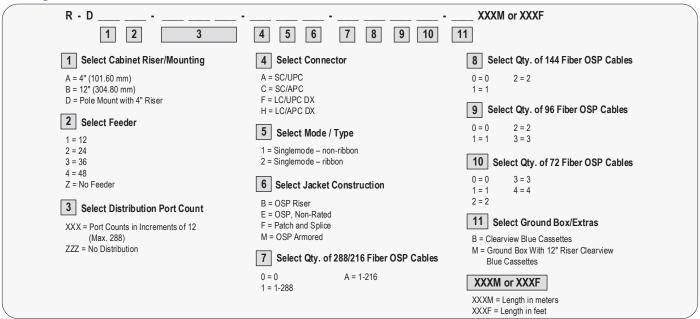
**Vault Options** 

Part Number	Description	
VC7B-CZP	Vault, Clearfield, 36" x 48" x 36", HDPE, Split Lid, with Cut Out for FieldSmart Cabinets, with Bolt Kit	
FMA-H3Z-BC-SUB	Pole Mount Kit, for FieldSmart FDH cabinets, 144	

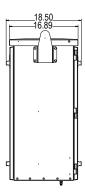


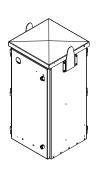
144, 288, 432, 576 and 864-Port PON Cabinet -

## **Configured Part Numbers - 288 Port**









## **Vault Options**

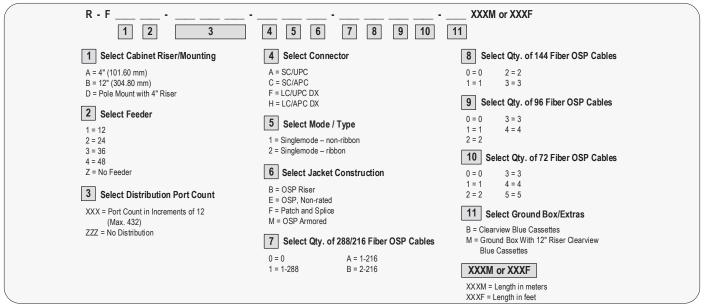
288 Port Cabinet

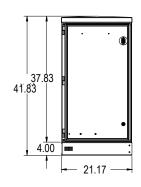
Part Number	Description	
VC7B-CZP	Vault, Clearfield, 36" x 48" x 36", HDPE, Split Lid, with Cut Out for FieldSmart Cabinets, with Bolt Kit	
FMA-H3Z-SUB	Pole Mount Kit for FieldSmart cabinet	



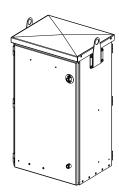
144, 288, 432, 576 and 864-Port PON Cabinet -

## **Configured Part Numbers - 432 Port**









## **Vault Options**

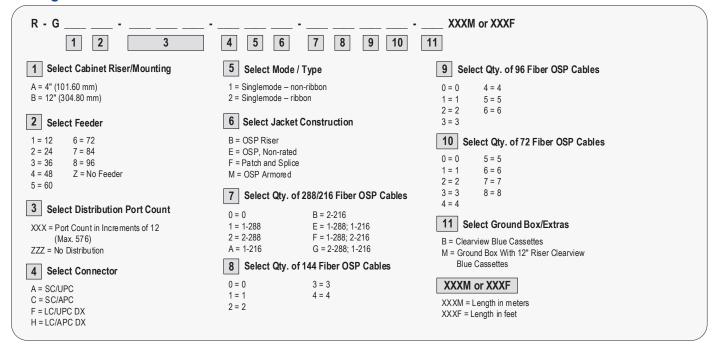
#### 432 Port Cabinet

Part Number	Description
VC7B-CZP	Vault, Clearfield, 36" x 48" x 36", HDPE, Split Lid, with Cut Out for FieldSmart Cabinets, with Bolt Kit
FMA-H3Z-SUB	Pole Mount Kit for FieldSmart cabinet

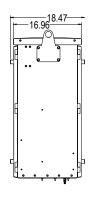


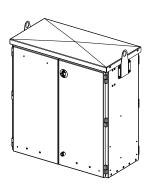
144, 288, 432, 576 and 864-Port PON Cabinet ————

## **Configured Part Numbers - 576 Port**









## **Vault Options**

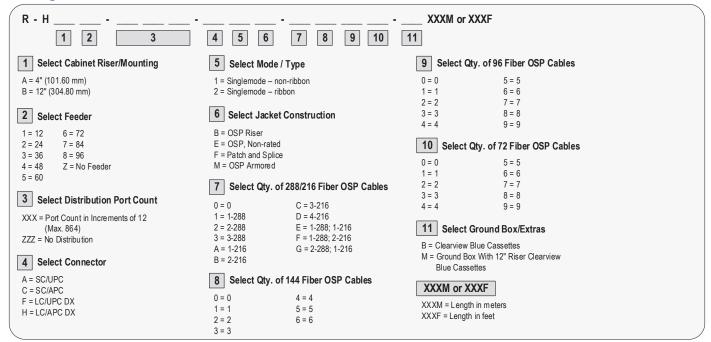
#### **576 Port Cabinet**

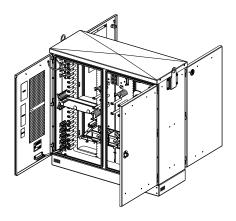
Part Number	Description	
VC7B-CZP	Vault, Clearfield, 36" x 48" x 36", HDPE, Split Lid, with Cut Out for FieldSmart Cabinets, with Bolt Kit	
V9B-HZP-PC	Vault, Pencell 48 x 48 x 36" (1219.20 mm x 1219.20 mm x 914.40 mm), complete split polymer concrete lid, cut out for 864 cabinets, polymer concrete straight wall	



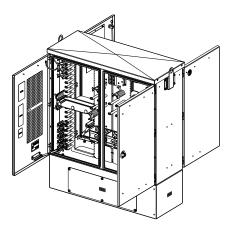
144, 288, 432, 576 and 864-Port PON Cabinet ———

## **Configured Part Numbers - 864 Port**





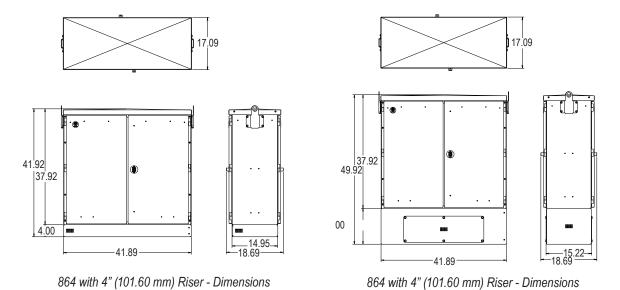
864 Interior View with 4" Riser



864 Interior View with 12" Riser

# FieldSmart® Fiber Distribution Hub (FDH) 144, 288, 432, 576 and 864-Port PON Cabinet





## **Pre-Configured Part Numbers**

#### **Vault Options**

Part Number	Description
V9B-HZP-PC	Vault, Pencell 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 cabinets, polymer concrete straight wall