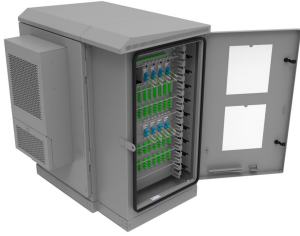# ALL-IN-ONE-CABINET

## Base Product

### All-In-One FLX Integrated PON Cabinet

- Supports DWDM and CWDM passive modules

### Introducing the CommScope All-In-One FLX integrated PON cabinet: The complete, flexible solution

Utilizing an All-In-One (AIO) cabinet, customers eliminate the need for multiple separate active and passive cabinets. Merging Outside Wireless Networkand Fiber Distribution Hub technology, this dense AIO provides an integrated solution specifically designedfor OSP edge of network deployment. Built to facilitate 100km backhaul and 20km extended Remote OLT PON customer reach when CO is not present. With both MSO and Telco OLT styled variants (node & shelf OLTs), we've built-in our swing framed fiber distribution hub technology (FDH), and value-added modules such as optical splitters and DWDM devices for simultaneous deployment. Meanwhile, the interior offers ample space for customizable power management, GR-487 compliant cabinet temperature control, battery backup, rectifiers, and more.

### MSO All-In-One FLX PON Cabinet

The MSO AIO could support up to 1,536 subscribers via multi-stage split using Hardened Nodes such as the CommScope NH4000 /NH4600 VHUB for 10gig EPON usage. Each AIO cabinet can carry 2 Hardened Nodes such as the CommScope VHUB. Each VHUB can support up to 3 PON modules which then provide 2 PON Ports/Servicing Groups each. Next, each PON Port/SG could then support up to a 1x128 split. Thus, 2 (VHUBs) x 3 (PON Modules) x 2 (PON Ports/SGs) x 128 (split) = 1,536 potential 10gig EPON edge of network subscriber support via a variety of FTTH distribution split architectures such as centralized, distributed/cascaded, and TAP.

- 1,536 subscriber potential (10gig EPON)
- Base cabinet is 48 in tall/ 21 RU meeting most municipality height requirements while providing maximum interior capacity
- 1,500W thermosiphon's ability provides built-in temperature control which is GR-487-complaint
- Less than 60 decibels of noise for low sound level
- Supports LGX mounted DWDM and CWDM passive optical modules (Hub-Collapse Capabilities)
- Mounts up to 24 LGX optical splitter modules with 1:2, 2:2 1:4, 1:8, 1:16, 1:32 and 1:64 configurations
- Pre-loaded with 2, 4, or 8 double-wide LGX bracket mounted 1x64 mini PNP LC/APC splitters
- Distribution field terminates 144, 288, or 576 fibers on LC/APC connectors on144-fiber or288-fiber distribution cable assembly stubbed arrangements
- Feeder field terminates 24 or 48 fibers on LC/APC connectors on 24-fiber or 48-fiber cable stub
- Cable stub length 100' standard via Dry Armored Loose Tube cable

### Telco All-In-One FLX PON Cabinet

Currently in NPI status, the Telco AIO could support up to 8,192 additional edge of network subscribers via multi-stage split using customer configured XGS-PON OLT shelving. Each cabinet can support up to 13RU via 19" or 23" racks for customer specific configuration. Configurations could support customer provided modular shelving which might provide up to 8 slots for OLT cards. Each OLT card could then support 16 PON Ports/Servicing Groups. Next, each PON Port/SG could then support up to a 1x64 split. Thus, 8 (OLT Cards) x 16 (PON Ports/SGs) x 64 (split) = 8,192 potential XGS-PON subscriber edge of network subscriber support. 44 out of a potential 128 PON Ports/SGs could then be accepted for (2xn) split within the AIO FDH sidecar via FDH3000 standard Plug-and-Play (PNP) splitters. Remaining PON Ports/SGs could be patched for multi-stage split.

- 8,192 subscriber potential (XGS-PON)
- Base cabinet is 48 in tall/ 21 RU meeting most municipality height requirements while providing maximum interior capacity
- 2,000W DC HVAC ability provides built-in cooling which is GR-487-complaint
- Less than 60 decibels of noise for low sound level

COMMSCOPE®

# ALL-IN-ONE-CABINET

- Salable with or without 2RU -48VDC/200 Amp DC ELTEK Rectifier/Power Plant
- Supports PNP FDH3000 mounted DWDM and CWDM passive optical modules
- Mounts up to 22 PNP optical splitter modules with 44 available splitter inputs
- Distribution field terminates 144 or 288 fibers on SC/APC connectors on144-fiber or288-fiber distribution cable stubs
- Cable stub length 100' standard via Dry Armored or Dielectric Loose Tube cable

## Product Classification

| | |
|---|---|
| **Regional Availability** | North America |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber PON cabinet |
| **Product Brand** | CommScope FLX™ |
| **Product Series** | FLX |
| **Warranty** | Two years |

## General Specifications

| | |
|---|---|
| **Accoustic Level, maximum** | 60 dB |
| **Alarm Type** | Door alarm |
| **Auxiliary Power Input** | Yes |
| **Cable Type** | Armored - Single Loose Tube |
| **Color** | Light Gray (RAL 7035) |
| **Interior LED light** | Both chambers |
| **Interface, Input** | LC |
| **Interface Feature, Input** | APC |
| **Lock Type** | Padlock ready |
| **Mounting** | Handhole   |   Pad |
| **Node Storage Capacity** | 2 |
| **Rack Storage** | 13RU (19 in) |
| **Splitter Type** | 1 x 64 |
| **Heat Management** | 1,500 W Thermosiphon |

## Dimensions

| | |
|---|---|
| **Height** | 1216 mm   |   47.874 in |
| **Width** | 1224 mm   |   48.189 in |
| **Depth** | 697 mm   |   27.441 in |
| **Cable Length** | 30.48 m   |   100 ft |

COMMSCOPE®

# ALL-IN-ONE-CABINET

| | |
|---|---|
| **Enclosure Size** | Large |

## Application Drawing
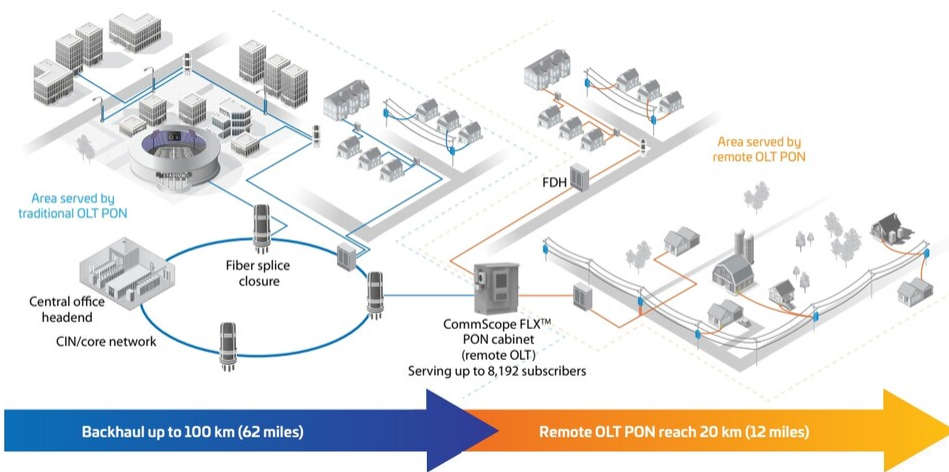


## Material Specifications

| | |
|---|---|
| **Finish** | Powder coated |
| **Material Type** | Aluminum |

## Environmental Specifications

| | |
|---|---|
| **Environmental Space** | Above ground |
| **Qualification Standards** | Telcordia GR-487-CORE |

## Packaging and Weights

| | |
|---|---|
| **Packaging quantity** | 1 |
| **Packaging Type** | Pallet |

## * Footnotes

| | |
|---|---|
| **Warranty** | For more information, please consult our Product Warranty guidelines |

**COMMSCOPE®**