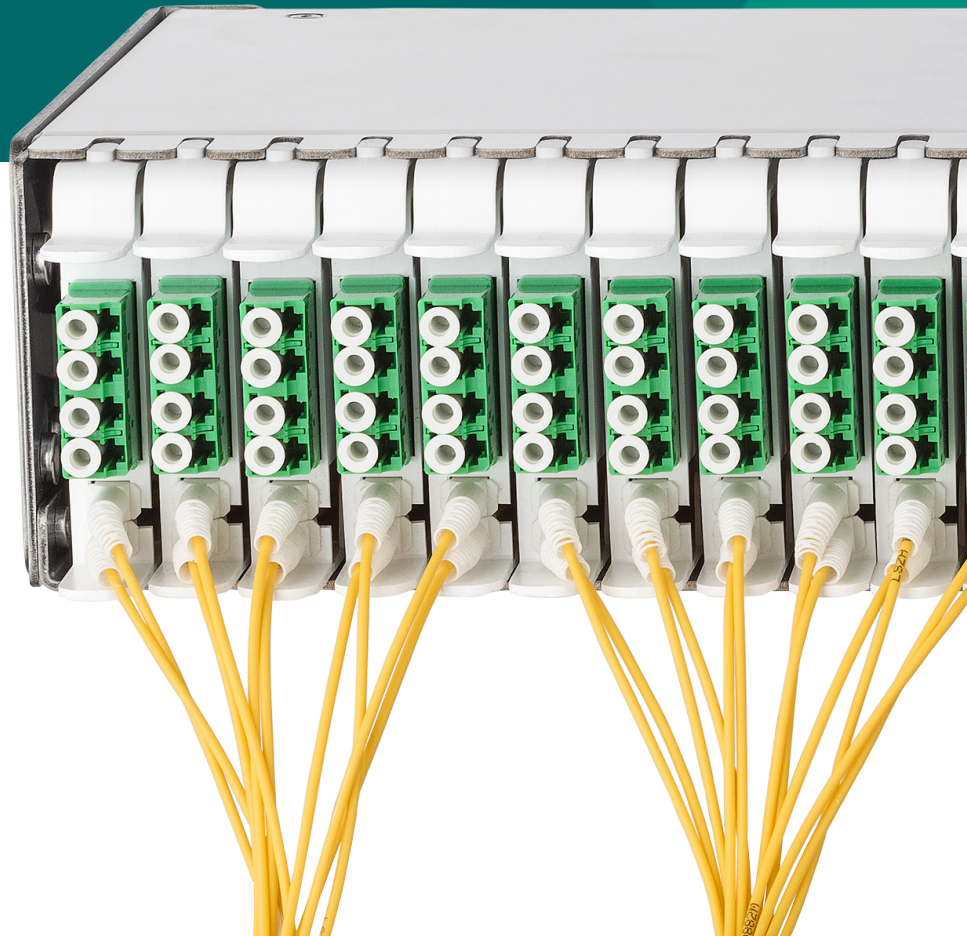


HDOSS-32



Introduction

The Technetix HDOSS-32 is a space-saving, ultra-high-density splitter system for PON FTTx. Engineered to a superior spec for simplified installation at OLT locations, HDOSS-32 is a compelling cost-saving asset for passive fiber networks.

Its features include:

- up to 32 splitter cassettes per 1.5 U chassis: 200 mm depth (7.9") for street cabinet deployment
- x2 1:2 or x1 1:4 splitter per cassette
- CWDM, GPON/XGS-PON and GPON/XGS-PON/RFoG co-existence filter options
- direct-to-OLT pre-connectorized pigtailed

- in-cassette pigtail management for simplified installation and optimal fiber length
- reduced upfront cost of OLT installations

Save-As-You-Grow

Planning cabinet space for new deployments is a significant process in the early stages of expansion or network build. Ensuring capacity that accommodates network growth over time requires effective cable management and space in the unit for additional splitters. Traditionally, splitter system deployments rely on good process and policy around cabinet works to sustain uninterrupted connections for existing subscribers. Furthermore, these splitters demand split ratio commitment from the outset, offering no flexibility on space for cabling or additional units.

As a solution to these considerations, HDOSS-32 offers:

- chassis-only installation for maximized cable management and U space for future deployments
- front-facing design and in-cassette spooling for up to 2.5m fiber for superb fiber management
- a modular cassette system to support usage-based deployments, simplifying expansion works and eliminating the need for additional splitters
- different cassette types for mix-or-match split ratios to future proof against split ratio heritage
- up to 8x greater density than competitor products: a 1:2 split for each port equates a maximum 6 RU rack space for the entire system

Use Case 1: An upgrade path from GPON to XGS-PON

You're looking to transition a GPON deployment to XGS-PON. Compact and space-saving, HDOSS-32 can be installed at the OLT location, providing the option for a 1:2 splitter adjacent to existing network infrastructure. This takes advantage of the higher split ratio available to XGS-PON, and significantly improves the transition process.

The solution's cassette system also supports single fiber GPON and XGS-PON co-existence, allowing easier customer upgrade over time in place of needing to upgrade all subscribers at once.

Use Case 2: Economic efficiencies

Port utilization can be low during early network deployment, based on customer uptake and network configurations. The HDOSS-32 offers operators the ability to combine under-utilized ports, freeing up OLT small form factor pluggables (SFPs) for deployment elsewhere in the network.

Furthermore, installing an additional 1:2 split co-located with the OLT at the start of a network build halves the number of line cards necessary. This allows operators to free up the typically high costs otherwise allocated to the issue of multiple line cards. In combination with optical transceivers, the 'commit-as-you-go' spend option that PON line cards present can generate significant savings for operators. These savings become exceptionally high value for urban deployments where the density of supporting infrastructures and homes passed is high.

Use Case 3: Creating space efficiencies

Grouping premises together on the same OLT port, and allocating individual splitters for each port, is fairly common practice. But with each 1 U splitter accommodating 6 OLT ports, every 6 ports require an additional 2 U (1 U for a splitter, 1 U for cable management) of space. OLTs with 24 ports need 8 U of space; however, HDOSS-32 reduces this real estate to 3 U, generating a rack space saving of 60%.

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