

How to find the PON port on a box-type optical splitter



Article Overview

The PON port on a box-type optical splitter is the single input fiber that connects to the OLT, usually labeled as "PON," "Input," or "IN," and is often distinguished from multiple output ports leading to subscribers.

Identifying the PON Port

- **Check the Labeling:** Most ABS or LGX box-type splitters have clear labels. The PON port is typically marked as "PON," "IN," or "Input", while the output ports are labeled numerically (e.g., 1-8, 1-16) for subscriber connections .
- **Port Quantity:** The PON port is usually a single fiber input, whereas the outputs are multiple fibers corresponding to the splitter ratio (e.g., 1×8, 1×16, 1×32), . The input fiber carries the signal from the OLT, and the outputs distribute it to Optical Network Terminals (ONTs) at user premises .
- **Connector Type:** Standard PON ports often use SC/APC connectors, which are green and angled, to minimize back reflection. Output ports may use the same connector type but are usually grouped and numbered .
- **Physical Position:** In many box-type splitters, the PON input is positioned separately from the output ports, often on one side of the box, while the outputs are arranged in a row or cluster .
- **Documentation or OEM Markings:** If the splitter is from a manufacturer like HOLIGHT or FS, the unit may include a port map or diagram showing which port is the PON input and which are outputs .

Practical Tips...

Article Content

Introduction to Passive Optical Network

The PON ports use multi-source agreement (MSA) type UPC or SC-PC fiber connector. The PON ports support a bandwidth of 2.466

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What Is Passive Optical Networking (PON)?

Passive optical networking (PON) provides Ethernet connectivity from a main data source to endpoints, using a technique called

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A splitter is then used to provide multiple fibers that serve an optical networking unit (ONU) box to an individual home or business.

Passive Optical Network

What is PON? A passive optical network, or PON, is a network technology that provides broadband access through optical fiber. It

The Working Principle and Application Scenarios of Fiber Optic Splitters

Explore the working principle of fiber optic splitters, their types, and real-world application scenarios in PON networks,

The FOA Reference For Fiber Optics

The specifications for a splitter are loss across the device and the variability of that loss for each port. A well made splitter will have

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Most FTTH networks are based on a PON network. The drawing below defines the network: a "feeder" cable extends from the OLT

What Is Optical Splitter?

An optical splitter is a device that divides light transmission in a network into multiple output ends. It plays a crucial

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In order to obtain the actual link port information of the ONU (optical network unit) in a passive PON (passive optical network), it is

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