OptoBlaze

Pre-Connectorized Plug and Play Solutions

OptoBlaze is a Multiport Service Terminal (MST) for FTTH Connectivity.

The OptoBlaze MST is an essential component within the access network, facilitating the rapid connection between the Fiber Distribution Hub and subscribers. When customers opt for FTTH service, the OptoBlaze Terminal serves as the crucial link, connecting the drop cable to their residences.

This IP68 ruggedized pre-terminated solution offers a swift, secure, and user-friendly means of establishing connections in an ergonomically designed, low-profile housing. Tailored for Outside Plant (OSP) applications, it can be seamlessly deployed in various settings, such as hand-holes, pedestals, utility poles, or overhead cables, and securely fastened to any flat surface.

STL OptoBlaze features a user-friendly design that facilitates quick and effortless mounting or dismounting, providing installers with a time-saving advantage during both installation and maintenance processes. It arrives pre-stubbed, making it an optimal choice for a dependable deployment in access networks, whether for Point-to-Point (PtP) configurations or as a GPON distributor with preassembled PLC splitters.

The OptoBlaze MST comes in multiple configurations, including 4-port, 6-port, 8-port, or 12-port, with or without preloaded splitters. To establish the crucial link between the Terminal and the subscriber's residence, the OptoBolt pre-connectorized drop cables (each containing one fiber) are essential.

Notably, this solution meets stringent environmental criteria, making it capable of withstanding direct exposure to extreme temperatures and humidity. Furthermore, the STL Terminal and Plugs are fully compatible with similar products available in the market, making them an ideal choice for enhancing and expanding FTTH networks.

Technical Features

Optimized Space and Aesthetics: The innovative Zig-Zag port layout enables greater port spacing within the terminal without expanding its overall size. This design is exceptionally user-friendly, even when wearing gloves, making it more accessible for installation and maintenance.

Enhanced Spacing for Faster Installations: The increased port spacing not only facilitates more straightforward connections but also accelerates drop cable installations, and it does so without the need for specialized tools. This boost in efficiency results in faster network deployment.

Compatibility with Existing Infrastructure: STL terminals seamlessly integrate with both current and legacy mounting brackets in the field, whether on utility poles or within manholes. This compatibility ensures a smooth transition and easy retrofitting into existing network Setups.

Intuitive Port Numbering: Port numbering follows a more logical sequence, reducing the risk of inadvertently connecting to the wrong port. This enhanced labeling system simplifies the setup process, improving efficiency and accuracy.

Reduced Skill and Training Requirements: The user-friendly design of the Zig Zag port layout, intuitive numbering, and tool-less installation further minimizes the need for extensive training and specialized skills. This lowers the entry barrier for technicians, reducing the learning curve.

Ease of Mounting and Dismounting: An optional bolt-less mounting/dismounting feature provides an effortless and rapid way to attach or remove the terminal, saving valuable time during installation or maintenance operations.

Applications

- Outdoor applications
- Hand-hole or pedestal
- On a pole or over-head cable

Dimensions [1]

2 and 4 Port Design
336mm x 88.6mm X 121.3mm

6 and 8 Port Design
431mm x 88.6mm X 121.3mm

12 Port Design
431mm x 88.6mm X 158.3mm

Note 1: The dimensions do not include the adapter caps.

Technical Specifications

Insertion loss (Random mated @ 1310 and 1550 nm)	IL avg < 0.3dB
Return Loss	RL >55dB
Water Tightness IP68	2m waterhead (20KPa)
Temperature Cycling	20 cycles from -40˚C to 65˚C △IL<0, 2db (@1310, 1550 and 1625nm)
Intermateability with Installed Base	Proven to the above criteria

STL OptoBlaze - Ordering Information [2]							
Series Name	**Terminal Port**	**Inside End**	**Flat Tail Cable**	**Cable Length**	**Outside End**	**Standard Packaging**	**STL Cable Printing**
OptoBlaze	**Splitter Style** 1x2 – 1x2 optical splitter 1x4 – 1x4 optical splitter 1x6 – 1x6 optical splitter 1x8 – 1x8 optical splitter 1x12 – 1x12 optical splitter **Non-Splitter Style** 2 - 2 Port 4 - 4 Port 6 - 6 Port 8 - 8 Port 12 - 12 Port	S-HFOC/APC Terminal U-HFOC/UPC Terminal N-Blunt	FT - All Dielectric flat Drop TN-Toneable flat drop IB - All Dielectric flat IBR Drop	XXXM (Meters) XXXF (Feet)	S-HFOC/APC Terminal U-HFOC/UPC Terminal N-Blunt	1	STL

STL OptoBlaze Accessories - Ordering Information	
Part Number	**Product Description**
FCFTTHS101S	Universal Mounting Bracket Kit

Note 2: Unbalanced splitter arrangements available upon request. Contact your sales representative for more information.

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For additional information please contact your sales representative.

You can also visit our website at **www.stl.tech**

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