



# FlexSym Singlemode to Multimode 2x8 Splitter

[Limited Availability] The Tellabs FlexSym Singlemode to Multimode 2x8 Splitter enable the cost-effective re-use of existing multimode fiber infrastructure inside buildings and across campuses. Tellabs FlexSym SM-MM 2x8 Splitter is ideal in scenarios where there is SMF cabling between buildings and MMF cabling within buildings. It also can be used when SMF cable is between main data center (MDF) to telecom closet (IDF) and MMF cable runs from telecom closet through-out access network (i.e. horizontal and drops).

## Features & Benefits

- Eliminates the cost of installing new singlemode fiber in the horizontal pathways and the final access drops
- Supports any length of singlemode fiber from the Tellabs OLT to the splitter up to the limit of the 28dB optical budget
- Supports OM1, OM2, OM3, and OM4 multimode fiber cabling
- Completely passive operation with no power or maintenance required
- Allows re-use of multimode fiber cabling from the splitter location to where the ONTs are mounted
- Available in both 2x8 and 2x16 splitter versions
- Optional support for Type-B PON redundancy adding additional resiliency to the network design
- Allows full rate G-PON service over MM fibers up to 550 meters

## Gallery



## Included Highlights

### Overview

The Tellabs FlexSym SM-MM 2x8 Splitter is a mode adapting splitter that has Singlemode Fiber (SMF) ports on the Optical Line Terminal (OLT) side of the splitter and allows operation of 2.5G ITU-T 984 G-PON over Multimode Fiber (MMF) between the splitter and the Optical Network Terminals (ONT).

### Scalability

Scale existing enterprise LAN regardless of SMF or MMF cabling. Repurpose installed MMF cabling to reach ONTs mounted in telecommunications rooms (intermediate distribution frames) within a building, or ONTs mounted in plenum space, above ceilings, below ceilings, in walls, in office cubicles or at desks, or even in main distribution frames in the main data centers of remote buildings.

### Stability

The Tellabs FlexSym SM-MM 2x8 Splitter provides industry leading fiber route diversity and geographically dispersed OLTs using FSAN-based Type-B PON redundancy. This redundancy provides for port-to-port, card-to-card and OLT-to-OLT protection back at the main data center. Network redundancy is an optional architecture for when the highest level for resiliency is required.

## Specifications

### Physical

- Height: 1.75 in / 44 mm
- Width: 19 in / 486 mm
- Depth: 10 in / 254 mm
- Weight:

### Environmental

- Temperature: -40° C to 70° C
- Relative humidity: 5% to 85%, noncondensing

### Compliance

### Installation

- Rack mount installation

### OLT Interface

- ITU-T G.984 G-PON standard
- Type-B PON redundancy option
- Connector: LC/SMF (OLT side)
- OLT to splitter Insertion Loss: 11.5 dB
- Approximate distance OLT to splitter assuming no patch panel: 20 km

### ONT Interface

- Connector: LC/MMF (ONT side)
- MM fiber distance from splitter to ONT up to 550 meters

## Passive Optical Network

- ITU-T G.984 G-PON standard
- Operating wavelengths: 1260 - 1625 nm

## Ordering Interface

- Tellabs FlexSym SM-MM 2x8 Splitter (ST version): Part Number TBD
- Tellabs FlexSym SM-MM 2x8 Splitter (LC version): Part Number 81.SMFMMF2X8-LC

## General

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