

Create the perfect backbone for your Smart Building's OT network

Optigo Connect™ saves space, cost and energy in your Smart building's Operational Technology (OT) network and the passive splitters are a key to a flexible and efficient network. Only Optigo Connect and the passive optical splitters can create a physical network topology that exactly matches the layout of your smart building.

Optigo's splitters are completely passive components that require no power for operation and generate no heat. In addition, they are completely immune to electromagnetic interference and high voltage. With their sleek and compact design, Optigo's splitters can be installed anywhere.

Use Optigo's passive splitters to create a customized topology to match your intelligent building's physical layout and your requirements for a high-availability network:

- The star or tree topology is excellent for horizontal applications such as airports, shopping malls or campuses.
- Passive Daisy-Chain topologies are ideal for vertical applications such as high-rise buildings. Simply run a single fiber from the basement and split it on each floor.
- Rings topologies are especially well-suited for perimeter surveillance or when a high-availability network is required.

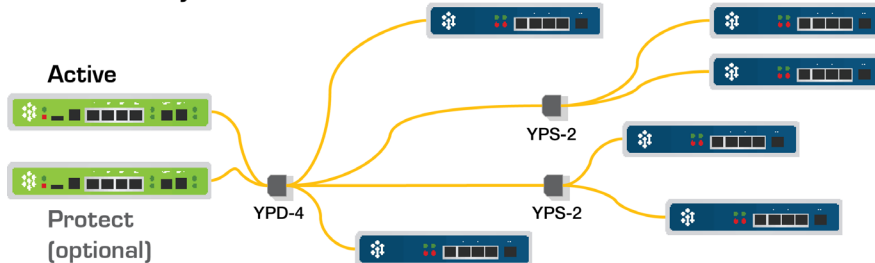


ONS-YPS-8
Passive Optical Splitter

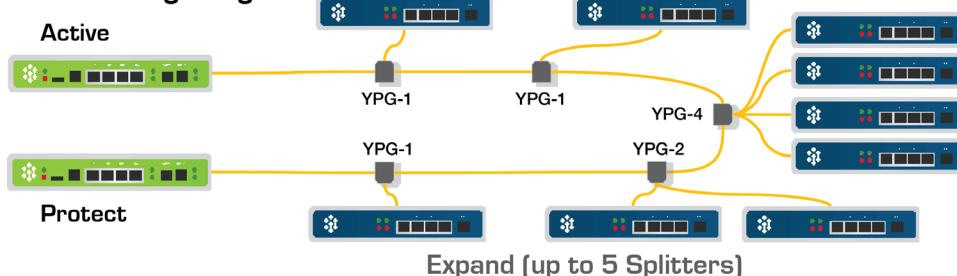
Product Highlights

- **Optimize cabling** throughout your smart building by running a single fiber — just split it when you need to.
- Passive splitters require:
 - **No power**
 - **No climate control**
 - **No maintenance whatsoever**
- **Flexible and expandable** architectures, both with and without redundancy.
- Available in rack-mount or compact form factors for deployment in any environment.

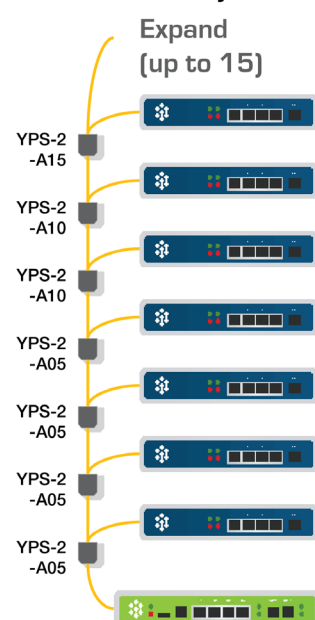
Star-Tree Hybrid



Self-Healing Ring



Passive Daisy-Chain



Product Specifications

| | CASE | INPUT | OUTPUTS | LEAD/CONNECTOR | DIMENSIONS | INSERTION LOSS | OPTIONS | |
|--|-------------|--------|---------------|--|--|--|---------------|----------|
| GENERAL USE – STAR TOPOLOGY – ABS PLASTIC ENCLOSURE | | | | | | | | |
| ONS-YPS-2 | ABS Plastic | Single | 2 | 40 cm (16") 3 mm Corning Fiber SC/UPC Male | 90 x 20 x 10 mm 3.6" x 0.8" x 0.4" | -3.8 dB | -L | |
| ONS-YPS-4 | ABS Plastic | Single | 4 | | 100 x 80 x 10 mm 4.0" x 3.2" x 0.4" | -7.1 dB | | |
| ONS-YPS-8 | ABS Plastic | Single | 8 | | 4.8" x 3.2" x 0.8" 120 x 80 x 18 mm | -10.4 dB | -LC | |
| ONS-YPS-16 | ABS Plastic | Single | 16 | | -13.4 dB | | | |
| GENERAL USE – STAR TOPOLOGY – RACK MOUNT ENCLOSURE | | | | | | | | |
| ONS-YRS-8 | Rack-mount | Single | 8 | SC/UPC Female | 483 x 240 x 44 mm 19" x 9.5" x 1RU | -9.1 dB | -APC | |
| ONS-YRS-16 | Rack-mount | Single | 16 | | | -12.1 dB | | |
| ONS-YRS-32 | Rack-mount | Single | 32 | | | -15.1 dB | | |
| DUAL-INPUT – CONNECT TWO AGGREGATION SWITCHES FOR REDUNDANCY | | | | | | | | |
| ONS-YPD-2 | ABS Plastic | Dual | 2 | 40 cm (16") 3 mm Corning Fiber SC/UPC Male | 100 x 80 x 10 mm 4.0" x 3.2" x 0.4" | -5.2 dB | -LC | |
| ONS-YPD-4 | ABS Plastic | Dual | 4 | | | -8.2 dB | | |
| ONS-YPD-8 | ABS Plastic | Dual | 8 | | | -11.2 dB | | |
| ONS-YRD-8 | ABS Plastic | Dual | 8 | SC/UPC Female | 483 x 240 x 44 mm 19" x 9.5" x 1RU | -11.2 dB | -APC | |
| ONS-YRD-16 | ABS Plastic | Dual | 16 | | | -14.2 dB | | |
| ONS-YRD-32 | ABS Plastic | Dual | 32 | | | -17.2 dB | | |
| RING SPLITTERS – CREATE REDUNDANT FIBER RING WITH TWO AGGREGATION SWITCHES | | | | | | RING | BRANCH | |
| ONS-YPG-1 | ABS Plastic | Ring | 1 | 40 cm (16") 3 mm Corning Fiber SC/UPC Male | 100 x 80 x 10 mm 4.0" x 3.2" x 0.4" | -1.5 dB | -11.4 dB | -L |
| ONS-YPG-2 | ABS Plastic | Ring | 2 | | | -1.5 dB | -14.4 dB | |
| ONS-YPG-4 | ABS Plastic | Ring | 4 | | | -2.6 dB | -14.2 dB | |
| ONS-YPG-6 | ABS Plastic | Ring | 6 | | | -4.0 dB | -14.5 dB | -LC |
| ONS-YPG-8 | ABS Plastic | Ring | 8 | | | -5.1 dB | -14.7 dB | |
| DAISY-CHAIN SPLITTERS – ASYMMETRICAL RATIO SPLITTERS FOR HIGH-RISE OR PERIMETER | | | | | | TRUNK | BRANCH | |
| ONS-YPS-2-A05 | ABS Plastic | Single | 2 (5/95%) | 40 cm (16") 3 mm Corning Fiber SC/UPC Male | 90 x 20 x 10 mm 3.6" x 0.8" x 0.4" | -0.3 dB | -13.1 dB | -L |
| ONS-YPS-2-A10 | ABS Plastic | Single | 2 (10/90%) | | | -0.5 dB | -10.0 dB | -LR |
| ONS-YPS-2-A15 | ABS Plastic | Single | 2 (15/85%) | | | -0.8 dB | -8.3 dB | |
| ONS-YPS-3-A10 | ABS Plastic | Single | 3 (10/10/80%) | | | 100 x 80 x 10 mm 4.0" x 3.2" x 0.4" | -1.1 dB | -10.0 dB |

Product Code Key: **P** – Plastic, **R** – Rack Mount, **S** – Single Input, **D** – Dual Redundant Inputs, **G** – Ring Redundant Inputs, **A** – Asymmetrical

| | | | |
|----------------------|--|---|--|
| LEAD OPTIONS | -L | Long Lead | All leads lengthened to 2 m (6') |
| | -LR | Long Lead Riser Optimized Connect splitters directly together. | Root lead 25 m (80') – with pulling sock and pull-eye. Branch lead 3 m (10') Trunk lead 1 m (3') |
| | -LC | Long Lead Customized | Custom specified lengths for Root, Branch, Trunk, or Ring leads. Up to 50 m (165') max length for each lead. Pull-eye available. |
| ENVIRONMENTAL | Operating Temperature: -40°C ~ 85°C (-40°F ~ 185°F) • Immune to corrosion, EM radiation, and high voltage. • Plenum Rated. | | |
| WARRANTY | Lifetime Warranty on all Optigo Splitters | | |

- The following terminology is used for splitter connectors, leads and Insertion Loss:
 - Root** – Input lead, leading back towards an Aggregation Switch.
 - Trunk** – Output of an asymmetric splitter with the larger percentage of light power (smaller Insertion Loss). Typically this continues towards the next splitter in a Daisy-Chain. Insertion Loss measured from Root to Trunk.
 - Branch** – Output of a splitter with smaller amount of light power. Typically connects to an Edge Switch. Insertion Loss measured from Root to Branch.
 - Ring** – Special case for Ring Splitters. Bidirectional Input/Outputs that continue through other Ring Splitters to an Aggregation Switch. Insertion Loss measured across the 2 Ring Leads.
- Maximum Optical Budget is 26 dB from Aggregation Switch to Edge Switch.
- Contact your local provider for a Passive Optical Networking design guide and budget calculation tool.
- All rack-mount splitters come with appropriate brackets for a 19" rack.
- ABS Plastic splitters may be mounted with Velcro adhesive pads (included) or using the predrilled holes for M3 screws (not included).



Contact us for more information
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ONS-YX-DS | Rev A