

## Skylane Optics offers a **broad portfolio** of solutions for your **FTTx Networks**.

### Active Ethernet Network

A FTTH/FTTB Active Ethernet Network consists of a Central Office (CO) connecting to the Customer Premises Equipment (CPE).

Active Ethernet Networks use a point-to-point architecture in which each end customer is connected to the Central Office (CO) on a dedicated fibre.

Our products :

- 1 SFP Single Fiber Downstream/Upstream** : By using wavelength multiplexing (WDM), these transceivers allow a bi-directional communication on a single fibre.
- 2 Compact SFP** : Increase CO port density by combining two single fibre transceivers into one SFP form factor.  
In addition, the Compact SFP will significantly reduce the overall power consumption at the CO side.

### Passive Optical Network

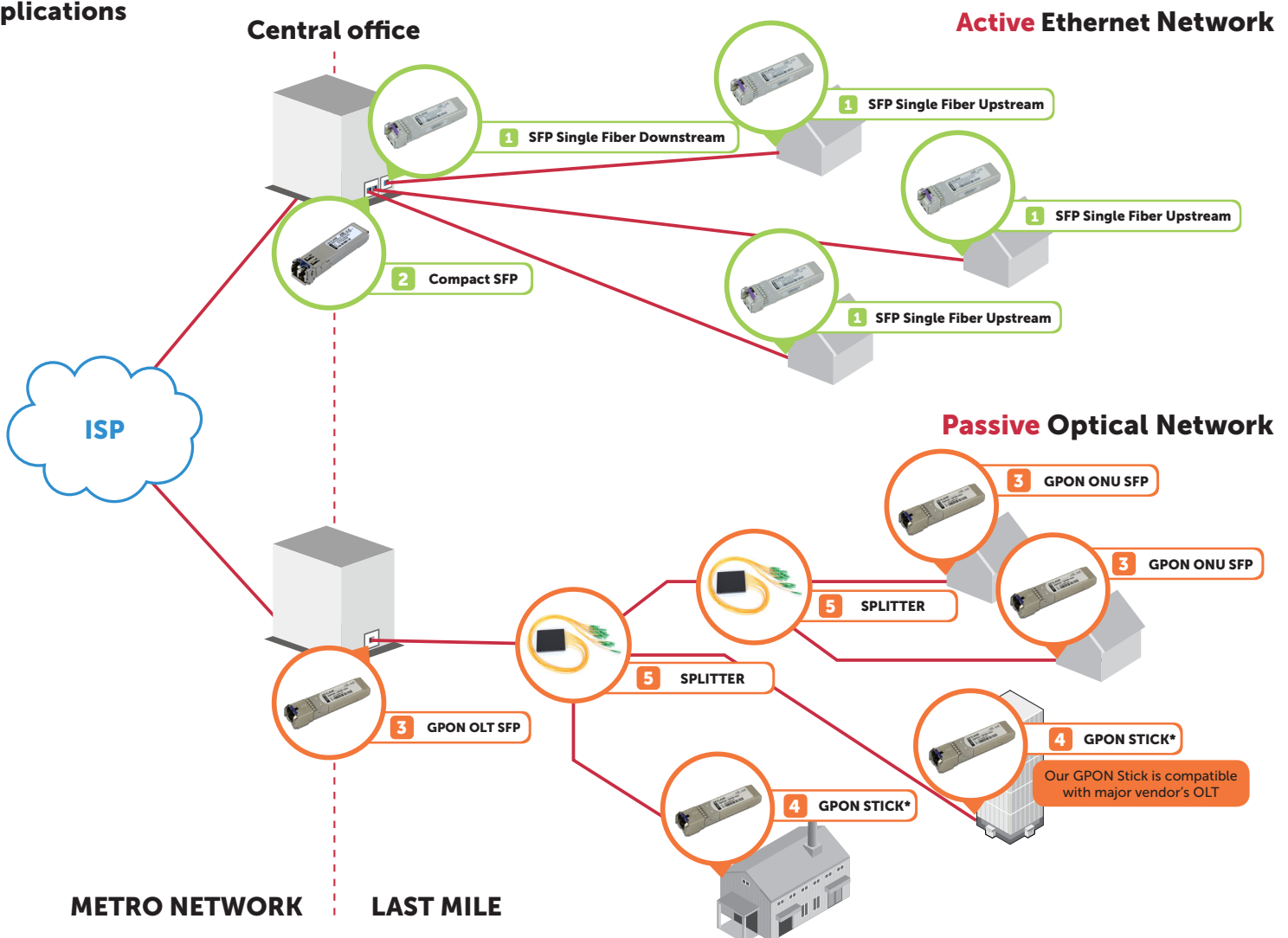
A FTTH/FTTB Passive Optical Network consists of an optical line terminal (OLT) at the service provider's central office and a number of optical network units (ONUs) near end-users.

Passive Optical Networks use point-to-multipoint fibre connections to the customer premises. The use of passive optical splitters enables the CO to serve multiple customers from one single port.

Our products :

- 3 GPON OLT/ONU SFP** : Transceiver (layer 1) designed for OLT/ONU available in class B+ and C+.
- 4 GPON Stick\*** : Complete ONU (layer 2) embedded in a SFP form factor; compatible with major vendor's OLT, available in class B+. It performs conversion between GPON and Ethernet protocols.
- 5 Power splitter** : Passive component used for splitting or combining optical signals to/from multiple outputs/inputs.

### Applications



Connectivity has never been this **simple**.

[www.skylaneoptics.com](http://www.skylaneoptics.com)

\*Product under development

## Ordering Information

1 SFP Single Fiber Downstream/Upstream	
SBD53020DRxx	SFP single fibre downstream, Tx 1550nm (DFB), Rx 1310nm (PIN), maximum distance 20km, power budget 14dB, Dual rate, LC or SC connector, 0°C to 70°C or -40°C to 85°C, DDM
SBU35020DRxx	SFP single fibre upstream, Tx 1310nm (FP), Rx 1550nm (PIN), maximum distance 20km, power budget 14dB, Dual Rate, LC or SC connector, 0°C to 70°C or -40°C to 85°C, DDM
SBD53020GExx	SFP single fibre downstream, Tx 1550nm (DFB), Rx 1310nm (PIN), maximum distance 20km, power budget 14dB, Gigabit Ethernet, LC or SC connector, 0°C to 70°C or -40°C to 85°C, DDM
SBU35020GExx	SFP single fibre upstream, Tx 1310nm (FP), Rx 1550nm (PIN), maximum distance 20km, power budget 14dB, Gigabit Ethernet, LC or SC connector, 0°C to 70°C or -40°C to 85°C, DDM
SBD43020GExx	SFP single fibre downstream, Tx 1490nm (DFB), Rx 1310nm (PIN), maximum distance 20km, power budget 14dB, Gigabit Ethernet, LC or SC connector, 0°C to 70°C or -40°C to 85°C, DDM
SBU34020GExx	SFP single fibre upstream, Tx 1310nm (FP), Rx 1490nm (PIN), maximum distance 20km, power budget 14dB, Gigabit Ethernet, LC or SC connector, 0°C to 70°C or -40°C to 85°C, DDM
A wide range of additional SFP single fiber transceivers are available. Please contact Skylane Optics or check the Skylane Optics website	
2 Compact SFP	
SCD43020DR0D	Compact SFP (option 2) single fiber, Tx 1490nm (DFB), Rx 1310 nm (PIN), maximum distance 10km, power budget 11 dB, Dual Rate, LC connector, 0°C to 70°C, DDM
SCD53020DR0D	Compact SFP (option 2) single fiber, Tx 1550nm (DFB), Rx 1310 nm (PIN), maximum distance 10km, power budget 11 dB, Dual Rate, LC connector, 0°C to 70°C, DDM
SCD43020GE0D	Compact SFP (option 2) single fiber, Tx 1490nm (DFB), Rx 1310 nm (PIN), maximum distance 10km, power budget 15 dB, Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SCD53020GE0D	Compact SFP (option 2) single fiber, Tx 1550nm (DFB), Rx 1310 nm (PIN), maximum distance 10km, power budget 15 dB, Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
3 GPON OLT/ONU SFP	
SBM43CBPDGxD	GPON OLT 2.5G/1.25G SFP Single fiber, Tx 1490nm(DFB), Rx 1310nm (APD), P2MP Tx downstream to 32:1 split over 20 km, Class B+, SC connector, 0°C to 70°C or -40°C to 85°C, DDM
SBM43CCPDGxD	GPON OLT 2.5G/1.25G, Single fibre, SC connector, Class C+, P2MP Tx downstream, 1:64 split over 20km, Tx 1490nm (DFB), Rx 1310nm (APD), nominal power budget 35 dB, 0°C to 70°C or -40°C to 85°C, DDM
SBN34CBPDGxD	GPON ONU 1.25G/2.5G SFP Single fiber, Tx 1310nm (DFB), Rx 1490nm (APD), P2MP, Class B+, SC connector, 0°C to 70°C or -40°C to 85°C, DDM
4 GPON Stick ONT/ONU*	
SBS34CBPDG3D	SFP GPON Stick, ONT Class B+, Tx 1310nm (DFB), Rx 1490nm (APD), maximum distance 20km, power budget 28.5dB, Asymmetric 1.25Gbps upstream/ 2.5Gbps downstream, low power consumption, SC connector, 0°C to 70°C, DDM
The use of GPON sticks will always require a dedicated qualification and customization procedure before installation and use in a Passive Optical Network. Offered on project basis only.	
5 Power Splitter	
PSxxxxxxxxxxxx	PLC power splitter, a variety of package styles and splitting ratios, Large or Rack, many Input Fiber Configurations, Length up to 2m, Select your output Connector adapter
A wide range of optical power splitters are available. Please contact Skylane Optics or check the Skylane Optics website.	

Want to know more about our **FTTx solutions?**  
 Contact us: [customer.service@skylaneoptics.com](mailto:customer.service@skylaneoptics.com)