



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:

> SFP Single Fibre Downstream/Upstream:

By using wavelength multiplexing (WDM), these transceivers allow a bi-directional communication on a single fibre.

> 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 (PON)

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.

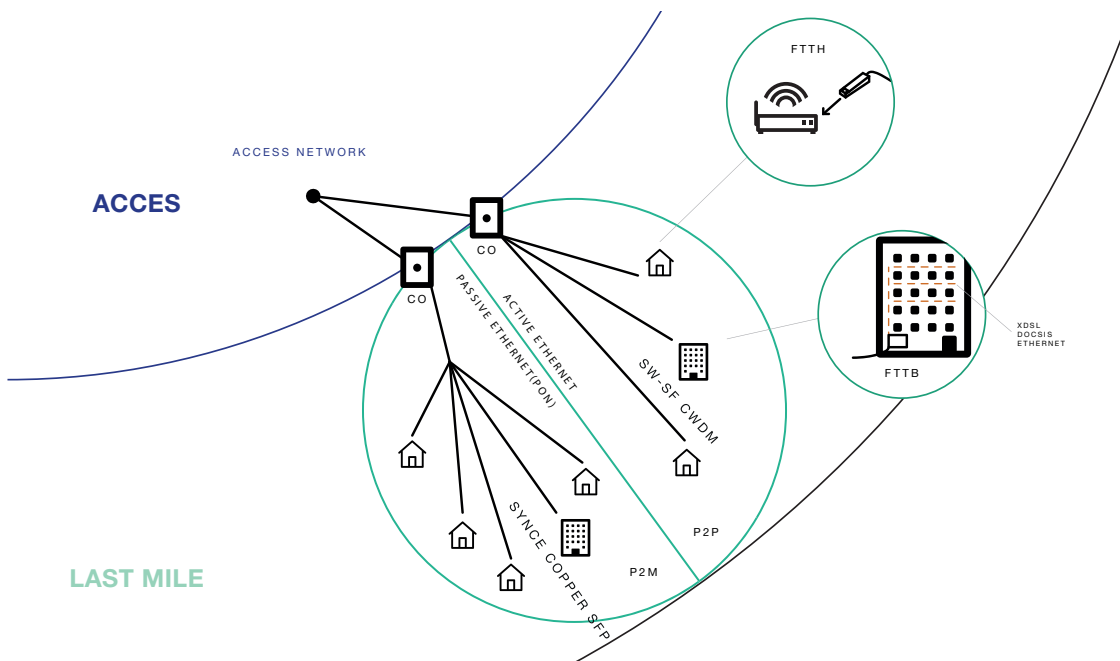
Our products:

> GPON OLT/ONU SFP:

Transceiver (layer 1) designed for OLT/ONU available in class B+ and C+.

> 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.





Ordering information

SFP Single Fiber Downstream/Upstream		
Standard	P/N	Descriptions
1000BASE-BXD	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
1000BASE-BXU	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
1000BASE-BXD	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
1000BASE-BXU	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
1000BASE-BXD	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
1000BASE-BXU	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.

Compact SFP		
Standard	P/N	Descriptions
1000BASE-BXD	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
1000BASE-BXD	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
1000BASE-BXD	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
1000BASE-BXD	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

GPON OLT/ONU SFP		
Standard	P/N	Descriptions
GPON SFP D	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
GPON SFP D	SBM43CCPDGxD	GPON OLT 2.5G/1.25G, SFP Single fibre, Tx 1490nm (DFB), Rx 1310nm (APD), P2MP Tx downstream to 1:64 split over 20km, Class C+, SC connector, nominal power budget 35 dB, 0°C to 70°C or -40°C to 85°C, DDM
GPON SFP D	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

GPON OLT/ONU SFP		
Standard	P/N	Descriptions
GPON STICK U	SBS34CBPDGKD*	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.

*PRODUCT UNDER DEVELOPMENT