



SKYLANE
OPTICS®

Portfolio

Connectivity has never been this simple.

Skylane Optics is a leading provider of transceivers for optical communication.

We offer an extensive portfolio for the enterprise, access, datacenter and metropolitan fiber optical market as well as for smart-home applications and home networks.



EXPERIENCE SINCE 1998



HIGHLY COMPATIBLE



ON SITE SUPPORT



CODING EXPERTISE

Transceivers

Online catalog:



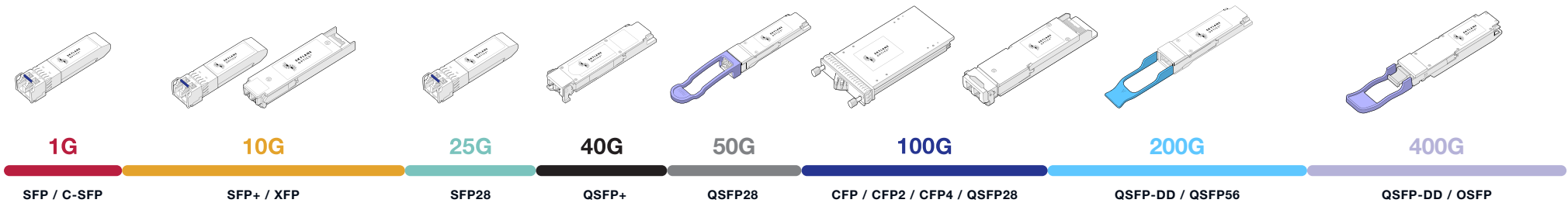
A wide range of form factors are available with data rates from 100Mbps up to 400Gbps. Skylane Optics offers the full range of transceivers with an unique set of services, including testing, coding, customization, effective support & technical expertise.

All transceivers are:

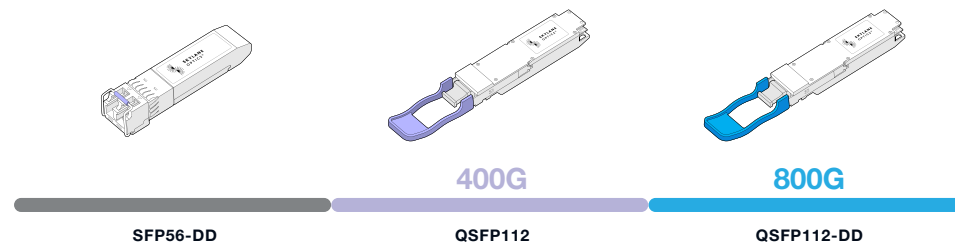
- ✓ standards-based and comply with the MSA (Multi-Source Agreement)
- ✓ manufactured utilizing the highest quality components available
- ✓ compatible with the largest Original Equipment Manufacturer (OEM)



Portfolio



New



Cable & Fiber Patch



The transceiver-cable consists of two transceivers directly attached to one piece of cable (DAC).

They can be declined into 3 categories: passive copper cables, active copper cables (ACC), and active optical cables (AOC).

These modules are available with data rates from 10Gbps to 400Gbps.

Direct Attach Cables (DAC)

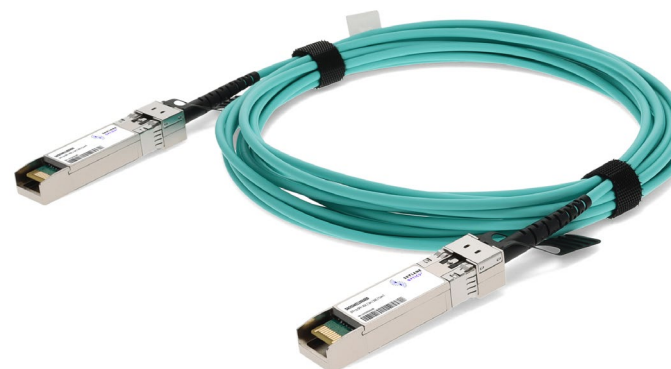
DACs run a direct connector-to-connector electrical connection through a thick copper wire, in order to avoid EM interference. DAC cables typically connect network elements within one to five meters in a network rack or cabinet. DACs are available in both “active” and “passive” variants. Passive DACs offer the benefits of low power consumption, while Active DACs provide a lower profile cable solution for cramped wiring environments.



Active Optical Cables (AOC)

AOCs offer a cost-effective solution consisting of fixed fiber optic transceivers on a fiber cable for short reach connections between 10m and 100m. AOCs are a ‘plug and play’ assembly, reducing the complexity of a standard fiber optic install. In addition, AOCs single 3.0mm cable diameter reduces the cable pile up in data center cable trays over a standard duplex fiber cable deployment.

DACs and AOCs offer many of the benefits of optical transceivers but with significant cost and power savings in short reach applications. The “plug and play” functionality of DACs and AOCs reduce the complexity and time to turn up new connections.





Media Converter

In an era of ever-expanding connectivity and increased demand for bandwidth there is a need to maximize existing infrastructures and connect dissimilar networks. As network complexities increase and distance requirements grow, network administrators face new challenges. They must meet new requirements and integrate new with old infrastructures, such as connecting copper to fibre or single mode to multimode fibre networks.

Skylane Optics offers a range of media converters that support a variety of cable and connector types to seamlessly integrate disparate networks.



Mini Media Converters

Mini Media Converters reduce space due to their compact size. If used in a cabinet, 12 MiMCs can be vuser change between 100base and 1G, as well as Link Fault Pass Through (LFPT) functions.

Power

Skylane Optics media converters are powered by an AC to DC 5-12v input with a power rating less than 3w. A maximum of 4 standard converters can be installed into a 2U rack.

Industrial Media Converters

In harsh environments, industrial media converters are a smart choice, ensuring stable conversion of data. The converters are rated to IP40, and with a working temperature between -40°C~+85°C. Skylane Optics provides industrial media converters in both the standard form factor for basic conversion and for the PoE range. These are mounted on DIN rails when installed. The industrial range of converters come with SFP connections.

Managed Media Converters

Managed Media Converters can be installed in a 2U-16 slot chassis providing the user with information such as Port status and Ethernet statistics on both TP and Fibre interface. This is achieved through SNMP and Event traps. QoS can be applied to differentiate traffic flows.

OAM / Loop Back Test are available for fault and maintenance diagnostics. They are powered the same way as the standard converters, and a maximum of 16 slot cards can be inserted into a 2U chassis. The managed converters come with SFP connections.

Power over Ethernet (PoE) Media Converters

Power over Ethernet allows for power to be delivered to low voltage equipment, such as VoIP phones, CCTV cameras and wireless access points. Skylane Optics offers 1G with POE 15.4w, POE+ 25.5w and POE+ Industrial temp products. The PoE converters are offered with SFP connections.

Unmanaged Media Converters

Unmanaged media converters have plug-and-play capabilities and are easily installed remotely or in cabinets, offering a simple, cost-effective solution without the same level of detection as managed converters.

Skylane Optics media converters range covers both multimode 850nm up to 550m, and single mode 1310nm up to a range of 40km. The converters are equipped with functions such as Auto MDI/MDI-X and support low-time lag transmission. Additionally, Skylane Optics offers both fixed and open-slot SFP versions of media converters, providing flexibility for your networking project needs.



Passive Products

(CWDM/DWDM/GPon/TAPs/Combiner-Splitters)

Skylane Optics Passive WDM Mux products are purpose designed to assist network operators to maximize existing fiber infrastructure. Coarse Wavelength Division Multiplexing (CWDM) and Dense Wavelength Division Multiplexing (DWDM) offer fiber network scalability, to add connections without adding fiber optic infrastructure.

Skylane Optics passive mux products complement our full line of transceivers to complete a full WDM solution. Passive WDM muxes are data rate and transmission type agnostic. Passive WDM muxes support ethernet, SONET, CPRI, Fibre Channel and other types of data supported by WDM. Skylane Optics offers multiple form factors to utilize valuable existing rack space and to fit into legacy mounting chassis.



CWDM - Coarse Wave Division Multiplexing

CWDM passive solutions carry up to 16 different wavelengths (colors of light) and adapt with single fiber connection. The primary 8 channels operate in the 1500nm range and the secondary 8 channels operate in the 1300nm range. CWDM channel spacing is 20nm. Specific, industry standard color coding is used resulting in a simplified set up.

DWDM - Dense Wave Division Multiplexing

DWDM passive solutions carry up to 88 different wavelengths down an individual fiber connection. The channel spacing is typically 100GHz (0.8nm) and reside in the 1530 to 1560nm band. The upshot is that a DWDM unit can carry more signals over a greater distance.

Pay as you Populate

As your network grows your Skylane Optics multiplexers are scalable allowing you to expand on a pay as you populate basis via module, chassis and transceiver options.

Skylane Optics can offer the full range of wavelength specific optical transceivers to populate both CWDM and DWDM multiplexer solutions, as well as fiber patch cables, custom and multicore solutions.

Chassis Options

1U 4 slot offers up to 32 CWDM/DWDM channels
4U 24 slot offers up to 192 CWDM/DWDM channels

Active Products

Actives catalog:



Increased network service demands have strained aging networks worldwide. DWDM has helped network operators defer new costly fiber runs, but upgrading data rates at range has proven complex.

Network operators now have a seamless upgrade path with active multiplexer (EDFAMUX).

EDFAMUX

Utilizing a single fiber to accommodate multiple channels is crucial for data center operators and network engineers seeking efficient solutions in fiber-exhausted areas. The EDFAMUX from Skylane Optics simplifies DWDM over a single fiber, providing a comprehensive amplification and dispersion compensation solution. This enables the connection of multiple channels over a single fiber within a single rack unit.



Quality Makes the Difference

At Skylane Optics, the manufacturing environment is strictly compliant to the most advanced standards, which will ensure long term reliability.

Why Choose Us:



Innovations for Early Adopters

The manufacturing environment is strictly compliant with most advanced technological standards, ensuring our products long term reliability.



Quality & Assurance

Our Cutting-Edge test equipment verifies that each of our products meets our high-quality standards.



Customization

Thanks to the specialists of our Engineering Department, we have full control over both the hardware and the software of all our transceivers.

Need your personal labelling? No problem, just ask and we provide!



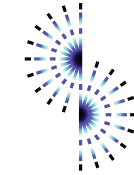
Multi-Compatibility

Skylane Optics offers a true cost-effective solution for all major platforms including the original vendor firmware.



Technical Support

Any issues with your equipment? Just make some coffee, we are already dispatching an engineer to your premises to fix it.



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Watch our video



Contact us



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