

ENERGIZE
your communications

Transceivers for Datacom and Telecom Applications

Skylane Optics supplies a broad range of optical transceivers for the Datacom and Telecom industry. Our Engineers work closely with our customers to find the best solution for every application. We are committed to providing high quality and high performance products and services to our customers.



SFP

- Datacom applications : Fast Ethernet, Gigabit Ethernet, 1x2x/4x Fibre Channel
- Telecom applications : OC-3/STM-1, OC-12/STM-4 and OC-48/STM-16
- Types :
 - > Copper
 - > Dual fibre (TDM/CWDM/DWDM)
 - > Single Fibre
- Technology
 - > Digital Diagnostics Monitoring
 - > SGMII
 - > Extended temperature and industrial temperature



SFP+

- Datacom applications : 10x Gigabit Ethernet, 2x/4x/8x Fibre Channel
- Types :
 - > Dual Fibre (TDM/CWDM/DWDM)
 - > Single Fibre
- Technology
 - > Digital Diagnostics Monitoring
 - > Extended temperature and industrial temperature



XFP

- Datacom applications : 10x Gigabit Ethernet, 10x Fibre Channel
- Telecom applications : OC-192/STM-64
- Types :
 - > Dual Fibre (TDM/CWDM/DWDM/DWDM-T)
 - > Single Fibre
- Technology :
 - > Digital Diagnostics Monitoring
 - > Extended temperatures and industrial temperatures



XENPAK

- Datacom applications : 10x Gigabit Ethernet, 10x Fibre Channel
- Types :
 - > Dual Fibre (TDM/CWDM/DWDM)
- Technology :
 - > Digital Diagnostics Monitoring

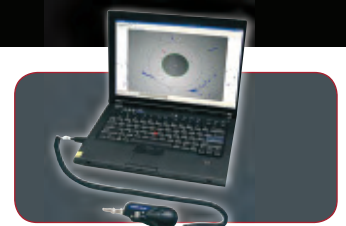


X2

- Datacom applications : 10x Gigabit Ethernet, 10x Fibre Channel
- Types :
 - > Copper
 - > Dual Fibre (TDM/CWDM/DWDM)
- Technology :
 - > Digital Diagnostics Monitoring

Skylane Optics Quality Assurance

All Skylane Optics transceivers undergo a quality and functionality inspection control at our Quality Assurance Department in Belgium. All transceivers have the relevant and applicable certificates e.g. Eye Safety, CE and ROHS. We perform regular quality audits of the manufacturing facilities. In addition, within our Quality Assurance Department we have equipment to perform qualification tests (e.g. climate and thermal chambers) and technical performance verification (e.g. Bertscope®, EXFO® AXS-200/850 (<=16), Optical Network Analyser Digital Lightwave® Nic NXG™ (>16), Optical Spectrum Analyser CWDM and DWDM , EXFO IQS610P). We also use our own bank of switches to ensure that compatibility with different platforms can be guaranteed. We use CleanBlaster® JDSU and JDSU® FiberCheck™ with the latest software compliant to IEC 61300-3-35 Ed. 1.0.



Cleanliness of transceivers

Skylane Optics transceivers are clean! The main problems with fiber-optical transceivers are dirt, dust and scratches. With our rigorous procedures for transceiver cleaning and cleanliness checking to IEC 61300-3-35 Ed.1.0 standard, we can promise our customers 100% clean transceivers.



Traceability

Skylane Optics transceivers are fully traceable with our Smart Serial Number system.



Certifications

- SKYLANE OPTICS TRANSCEIVERS ARE CERTIFIED BY TUV.
- EN 60950-1:2006 ITE, Safety, General requirements
 - EN 60825-1:2007 Safety of laser products
 - EN 60825-2:2004 Safety of Optical Fiber Communication Systems



Skylane Optics transceivers are CE and ROHS compliant

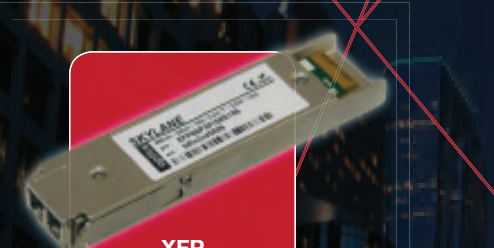
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SFP



SFP+



XFP



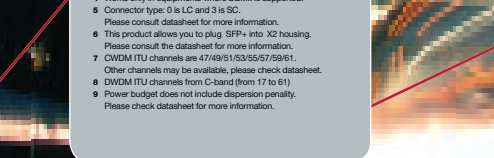
Xenpak



SFP+



XFP

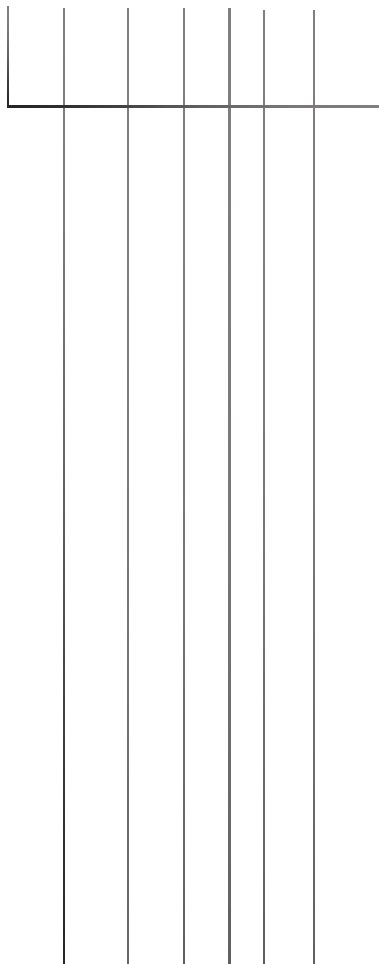


X2

Form Factor	Type	Media Type	Data Rate	Wavelength	Transmitter	Receiver	Distance / P. Budget	Fiber Channel	2x Fiber Channel	4x Fiber Channel	8x Fiber Channel	Serial D0-3	Serial D0-12	Serial D0-48	10x Fiber Channel	10x Ethernet Temperature Range	Connector	DOM	SGMI	Worq
SFP	Dual Fibre	SFP13002FD0	multimode	125 Mb/s	1310nm	FP	PN	2km								0°C to 70°C	LC			3
		SFP13001FD0	singlemode	125 Mb/s	1310nm	FP	PN	10km								0°C to 70°C	LC			3
		SFP13003FD0	singlemode	125 Mb/s	1310nm	FP	PN	30km								0°C to 70°C	LC			3
		SFP13004FD0	singlemode	125 Mb/s	1310nm	FP	PN	40km								0°C to 70°C	LC			3
		SFP13005FD0	singlemode	125 Mb/s	1310nm	FP	PN	60km								0°C to 70°C	LC			3
		SFP15002FD0	singlemode	1.25 Gb/s	1550nm	DFB	PN	80km								0°C to 70°C	LC			3
		SFP8555E10	multimode	1.25 Gb/s	850nm	VCSSEL	PN	550m								-20°C to 85°C	LC			3
		SFP13002E10	multimode	1.25 Gb/s	1310nm	FP	PN	2km								-20°C to 85°C	LC			3
		SFP13003E20	singlemode	1.25 Gb/s	1310nm	FP	PN	10km								-40°C to 85°C	LC			3
		SFP13003E10	singlemode	1.25 Gb/s	1310nm	FP	PN	2km								-20°C to 85°C	LC			3
SFP	Dual Fibre	SFP15000E10	singlemode	1.25 Gb/s	1550nm	DFB	PN	60km							-20°C to 85°C	LC			3	
		SFP15000E10	singlemode	1.25 Gb/s	1550nm	DFB	PN	80km							-20°C to 85°C	LC			3	
		SFP15100E10	singlemode	1.25 Gb/s	1550nm	DFB	APD	100km							-20°C to 85°C	LC			3	
		SFP855320D	multimode	2.125 Gb/s	850nm	VCSSEL	PN	300m							0°C to 70°C	LC			3	
		SFP130102FD0	singlemode	2.125 Gb/s	1310nm	FP	PN	10km								0°C to 70°C	LC			3
		SFP15002FD0	singlemode	2.125 Gb/s	1550nm	DFB	PN	40km								0°C to 70°C	LC			3
		SFP15002FD0	singlemode	2.125 Gb/s	1550nm	DFB	PN	40km								0°C to 70°C	LC			3
		SFP15002FD0	singlemode	2.125 Gb/s	1550nm	DFB	PN	40km								0°C to 70°C	LC			3
		SFP13002FD0	singlemode	2.125 Gb/s	1310nm	FP	PN	2km								-40°C to 85°C	LC			3
		SFP13002FD0	singlemode	2.125 Gb/s	1310nm	FP	PN	2km								-40°C to 85°C	LC			3
SFP	Dual Fibre DWDM	SFC0x000E10	singlemode	1.25 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
		SFC0x000E10	singlemode	1.25 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
		SFC0x120E10	singlemode	1.25 Gb/s	CWDM/ITU ch.	CWDM DFB	APD	32km/120km								0°C to 70°C	LC			2.7
		SFC0x160E10	singlemode	1.25 Gb/s	CWDM/ITU ch.	DWDM DFB	APD	40km/160km								0°C to 70°C	LC			2.7
		SFC0x000E10	singlemode	2.125 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
		SFC0x000E10	singlemode	2.125 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
		SFC0x000E10	singlemode	2.125 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
		SFC0x000E10	singlemode	2.125 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
		SFC0x000E10	singlemode	2.125 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
		SFC0x000E10	singlemode	2.125 Gb/s	CWDM/ITU ch.	CWDM DFB	PN	160km/40km								0°C to 70°C	LC			2.7
SFP	Dual Fibre DWDM	SFDx100E10	singlemode	1.25 Gb/s	DWDM/ITU ch.	DWDM DFB	APD	30km/100km								0°C to 70°C	LC			2.8
		SFDx100E10	singlemode	3.1 Gb/s	DWDM/ITU ch.	DWDM DFB	APD	30km/120km								0°C to 70°C	LC			2.8
		SFDx100E10	singlemode	2.1 Gb/s	DWDM/ITU ch.	DWDM DFB	PN	160km/100km								0°C to 70°C	LC			2.8
		SFD00P10E10	copper	125 Mb/s	n/a	n/a	n/a	100m								0°C to 70°C	RJ 45			2.8
		SFD00P10E10	copper	155 Mb/s	n/a	n/a	n/a	100m								-40°C to 85°C	DM 1.0/2.3/750m			2.8
		SFD00P10E10	copper	1.25 Gb/s	n/a	n/a	n/a	100m								0°C to 70°C	RJ 45			2.8
		SFD00P10E10	copper	1.25 Gb/s	n/a	n/a	n/a	100m								0°C to 70°C	RJ 45			2.8
		SFD00P10E10	copper	2.5 Gb/s	n/a	n/a	n/a	10m								-40°C to 85°C	HSSD2			2.8
		SFD00P10E10	copper	2.5 Gb/s	n/a	n/a	n/a	10m								0°C to 70°C	RJ 45			2.8
		SFD00P10E10	copper	2.5 Gb/s	n/a	n/a	n/a	10m								0°C to 70°C	RJ 45			2.8
SFP	Single Fibre	SB03010E10	singlemode	125 Mb/s	1550nm	FP	PN	10km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1310nm	FP	PN	10km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1550nm	FP	PN	20km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1310nm	FP	PN	20km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1550nm	DFB	PN	40km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1310nm	DFB	PN	40km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1550nm	DFB	PN	60km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1310nm	DFB	PN	60km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1550nm	DFB	PN	80km								0°C to 70°C	LC/SC			3.6
		SB03010E10	singlemode	125 Mb/s	1310nm	DFB	PN	80km								0°C to 70°C	LC/SC			3.6
SFP	Single Fibre	SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB04010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
SFP	Single Fibre	SB05010E10	singlemode	125 Mb/s	1550nm	DFB	PN	10km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1310nm	FP	PN	10km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1550nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1310nm	FP	PN	20km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1550nm	DFB	PN	40km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1310nm	FP	PN	40km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1550nm	DFB	PN	60km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1310nm	FP	PN	60km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1550nm	DFB	PN	80km								0°C to 70°C	LC/SC			3.6
		SB05010E10	singlemode	125 Mb/s	1310nm	FP	PN	80km								0°C to 70°C	LC/SC			3.6
SFP	Single Fibre	SB06010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB06010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB06010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB06010E10	singlemode	125 Mb/s	1490nm	DFB	PN	20km								0°C to 70°C	LC/SC			3.6
		SB06010E10	singlemode	125 Mb/s																

Part Number Nomenclature

(aaa)(bb)(ccc)(dd)(e)(f)(ggg)



Transceiver type (aaa)

- SFP SFP Dual Fibre
- SFC SFP Dual Fibre CWDM
- SFD SFP Dual Fibre DWDM
- SGP SFP Dual Fibre SGMII
- SFT SFP Copper
- SGT SFP Copper SGMII
- SBD SFP Single Fibre Downstream
- SBU SFP Single Fibre Upstream
- SGD SFP Single Fibre Downstream SGMII
- SGU SFP Single Fibre Upstream SGMII
- SPP SFP+ Dual Fibre
- SPC SFP+ Dual Fibre CWDM
- SPD SFP+ Dual Fibre DWDM
- SPB SFP+ Single Fibre
- XFP XFP Dual Fibre
- XFC XFP Dual Fibre CWDM
- XFD XFP Dual Fibre DWDM
- XFB XFP Single Fibre
- XPP Xenpak Dual Fibre
- XPC Xenpak Dual Fibre CWDM
- XPD Xenpak Dual Fibre DWDM
- X2P X2 Dual Fibre
- X2C X2 Dual Fibre CWDM
- X2D X2 Dual Fibre DWDM
- X2T X2 Copper
- X2S X2 Converter



Wavelength (bb)

- 00 n/a
- 85 Tdm: 850nm
- 13 Tdm: 1310nm
- 15 Tdm: 1550nm
- 53 BiDi: Tx 1550nm & Rx 1310nm
- 35 BiDi: Tx 1310nm & Rx 1550nm
- 43 BiDi: Tx 1490nm & Rx 1310nm
- 34 BiDi: Tx 1310nm & Rx 1490nm
- 54 BiDi: Tx 1550nm & Rx 1490nm
- 45 BiDi: Tx 1490nm & Rx 1550nm
- 32 BiDi: Tx 1330nm & Rx 1270nm
- 23 BiDi: Tx 1270nm & Rx 1330nm
- xx xWDM: ITU channel for xWDM
- TU Tunable DWDM

Distance (ccc)

- Pxx
- xxx
- 000

Distance in meter (xx * 10)
Distance in km
n/a

Protocol (dd)

- FE
- GE
- 10
- 2F
- 4F
- 8F
- PA
- 0H
- DR

Fast Ethernet
Gigabit Ethernet
10 Gigabit Ethernet
2x Fibre Channel
4x Fibre Channel
8x Fibre Channel
OC-48 Multirate
OC-192 Multirate
Dual rate (FE & GE)

Temperature, connector & misc. (e)

- 0
- 1
- 2
- 3
- 4
- 5
- C
- D
- F

0°C to 70°C, LC
-20°C to 85°C, LC
-40°C to 85°C, LC
0°C to 70°C, SC
-20°C to 85°C, SC
-40°C to 85°C, SC
0°C to 70°C, Optolock®
-40°C to 85°C, Coax 75ohm
-40°C to 85°C, CX4

Digital Diagnostics Monitoring (f)

- 0
- D

DDM not implemented
DDM implemented

Configuration (ggg)

- xxx

refers to a particular configuration of the transceiver. Default is 000

This nomenclature does not include specifics P/N for special projects or obsolete component. Please consult www.skylaneoptics.com for updated document. Skylane Optics® is a registered trademark.



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