

PUBLIC_REV2017_D



SKYLANE
OPTICS®

Part Number Nomenclature

Part Number Nomenclature



#01 Purpose

This document serves as a reference for all existing Skylane Optics part numbers and will serve as a guide when creating new Skylane Optics part number.

#02 Scope

This document defines all Skylane Optics part number Active modules but does not include specific part numbers for special projects or obsolete component.

#03 Authorities and responsibilities

The members of Skylane Optics Program Committee to revise and keep this document up to date for external and internal reference.

#04 Applicable reference documents

Please consult www.skylaneoptics.com for updated document.

#05 Definitions and acronyms

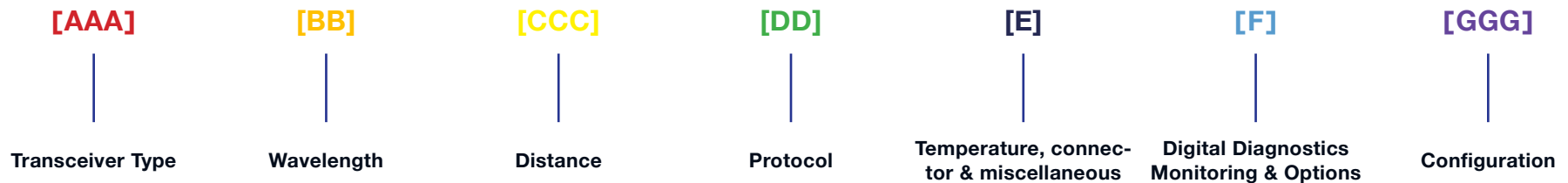
- SK – Skylane Optics
- PC – Product Committee

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#06 Part number nomenclature

This is the general representation of the part number nomenclature for all Skylane Optics Active Product Lines.



Part Number Nomenclature



#07 Reference tables

Transceiver type					
[AAA notation]	Short Definition	Characteristics	[AAA notation]	Short Definition	Characteristics
CF2	CFP 2		Q28	QSFP28 Form factor	
C2X	CFP2 10x10Gbits		RJP	RJ Low Profile Dual Fibre	
CF4	CFP 4		SFP	SFP Dual Fibre	
C4X	CFP 4 10x10Gbits		SFC	SFP Dual Fibre CWDM	
CFP	CFP 4x25Gbits		SF6	SFP Dual Fibre CWDM	6x sub-wavelengths
CFF	CFP 4x10Gbits		SFD	SFP Dual Fibre DWDM	
CFX	CFP 10x10Gbits		SGP	SFP Dual Fibre SGMII	
CXP	CXP		SFT	SFP Copper	
CX2	CXP 2		SGT	SFP Copper SGMII	
FFC	SFF Dual Fibre CWDM		SBD	SFP Single Fibre Downstream	
GBF	GBIC Dual Fibre		SBU	SFP Single Fibre Upstream	
GBC	GBIC Dual Fibre CWDM		SBC	SFP Single Fibre CWDM	
GBU	GBIC Single Fibre Upstream		SBH	SFP Single Fibre CWDM	Single Wavelength
GBD	GBIC Single Fibre Downstream		SB6	SFP Single Fibre CWDM	6x sub-wavelengths
GBT	GBIC Copper		SGD	SFP Single Fibre Downstream SGMII	
QFP	QSFP+ Form factor		SGU	SFP Single Fibre Upstream SGMII	

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#07 Reference tables

Transceiver type					
[AAA notation]	Short Definition	Characteristics	[AAA notation]	Short Definition	Characteristics
SCD	CSFP Bi-Directional Downstream		XFD	XFP Dual Fibre DWDM	
SCU	CSFP Bi-Directional Upstream		XF5	XFP Dual Fibre DWDM 50GHz fix	
SPP	SFP+ Dual Fibre		XFB	XFP Single Fibre	
SPC	SFP+ Dual Fibre CWDM		XPP	Xenpak Dual Fibre	
SPD	SFP+ Dual Fibre DWDM 100Ghz		XPC	Xenpak Dual Fibre CWDM	
SP5	SFP+ Dual Fibre DWDM 50Ghz fix		XPD	Xenpak Dual Fibre DWDM	
SPB	SFP+ Single Fibre		XPT	Xenpak Copper	
SPH	SFP+ Single Fibre CWDM	Single Wavelength	XPS	Xenpak converter (SFP+)	
SPT	SFP+ 10G copper		XPX	Xenpak converter (XFP)	
S28	SFP28 Dual Fibre		X2P	X2 Dual Fibre	
S2C	SFP28 Dual Fibre CWDM		X2C	X2 Dual Fibre CWDM	
S2D	SFP28 Dual Fibre DWDM		X2D	X2 Dual Fibre DWDM	
S2B	SFP28 Single Fibre		X2T	X2 Copper	
XFP	XFP Dual Fibre		X2S	X2 Converter (SFP+)	
XFC	XFP Dual Fibre CWDM		X2X	X2 Converter (XFP)	

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#07 Reference tables

Wavelength					
[BB notation]	Short Definition	Characteristics	[BB notation]	Short Definition	Characteristics
00	n/a		X1	ER-4 DWDM Band 1 10x DWDM 1528.77 to 1535.82	(100GHz spacing)
65	Tdm: 650nm		X2	ER-4 DWDM Band 2 10x DWDM 1537.40 to 1544.53	channels per band
85	Tdm: 850nm		X3	ER-4 DWDM Band 3 10x DWDM 1546.12 to 1553.33	•
13	Tdm: 1310nm		X4	ER-4 DWDM Band 4 10x DWDM 1554.94 to 1562.23	•
15	Tdm: 1550nm		X5	ER-4 DWDM Band 5 10x DWDM 1529.16 to 1536.22	(50GHz spacing)
53	BiDi: Tx 1550nm & Rx 1310nm		X6	ER-4 DWDM Band 6 10x DWDM 1537.79 to 1544.92	channels per band
35	BiDi: Tx 1310nm & Rx 1550nm		X7	ER-4 DWDM Band 7 10x DWDM 1546.52 to 1553.73	•
43	BiDi: Tx 1490nm & Rx 1310nm		X8	ER-4 DWDM Band 8 10x DWDM 1555.34 to 1562.64	•
34	BiDi: Tx 1310nm & Rx 1490nm		xx	xWDM: ITU channel for xWDM	
54	BiDi: Tx 1550nm & Rx 1490nm		A	1470nm	xy BiDi CWDM: [SBC]
45	BiDi: Tx 1490nm & Rx 1550nm		B	1490nm	•
32	BiDi: Tx 1330nm & Rx 1270nm		C	1510nm	•
23	BiDi: Tx 1270nm & Rx 1330nm		D	1530nm	•
19	BiDi: Tx 1510nm & Rx 1590nm		E	1550nm	•
91	BiDi: Tx 1590nm & Rx 1510nm		F	1570nm	•
17	BiDi: Tx 1510nm & Rx 1570nm		G	1590nm	•
71	BiDi: Tx 1570nm & Rx 1510nm		H	1610nm	•
TU	xWDM: Tunable DWDM		I	1270nm	•
QL	LR-4 CWDM 1271/1291/1311/1331nm		J	1290nm	•
QD	LR-4 DWDM 1295.56/1300.05/1304.58/1309.14		K	1310nm	•
QS	SWDM4 4x VCSEL laser operating around 850nm.		L	1330nm	•

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#07 Reference tables

Wavelength					
[BB notation]	Short Definition	Characteristics	[BB notation]	Short Definition	Characteristics
M	1350nm	xy BiDi CWDM: [SBC]	HD	1610nm high	xy BiDi CWDM Single wavelength: [SBH]
N	1370nm		IU	1270nm low	
O	1390nm		ID	1270nm high	
P	1410nm		JU	1290nm low	
Q	1430nm		JD	1290nm high	
R	1450nm	KU	1310nm low		
AU	1470nm low	xy BiDi CWDM Single wavelength: [SBH]	KD	1310nm high	
AD	1470nm high		LU	1330nm low	
BU	1490nm low		LD	1330nm high	
BD	1490nm high		MU	1350nm low	
CU	1510nm low		MD	1350nm high	
CD	1510nm high		NU	1370nm low	
DU	1530nm low		ND	1370nm high	
DD	1530nm high		OU	1390nm low	
EU	1550nm low		OD	1390nm high	
ED	1550nm high		PU	1410nm low	
FU	1570nm low		PD	1410nm high	
FD	1570nm high		QU	1430nm low	
GU	1590nm low		QD	1430nm high	
GD	1590nm high		RU	1450nm low	
HU	1610nm low		RD	1450nm high	

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#07 Reference tables

Distance		
[CCC notation]	Short Definition	Characteristics
Mxx	Distance in unit of 1 meter	
Pxx	Distance in unit of 10 meters	
Cxx	Distance in unit of 100 meters	
xxx	Distance in unit of 1 km	
Bxx	Power budget in unit of dB	
SMx	Distance in unit of 1km, single mode fiber	
000	n/a	

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#07 Reference tables

Protocol		
[DD notation]	Short Definition	Characteristics
FE	Fast Ethernet	
GE	Gigabit Ethernet	
10	10 Gigabit Ethernet	
25	25x Gigabit Ethernet	
40	40x Gigabit Ethernet + Infiniband QDR	
C0	103x Gigabit Ethernet	
C1	103x Gigabit Ethernet & OTU-4	
2F	2x Fibre Channel	
4F	4x Fibre Channel	
8F	8x Fibre Channel	
16	16x Fibre Channel	
32	32x Fibre Channel	
08	OC-3/STM-1	
EG	OC-3/STM-1 & Fast Ethernet	
04	OC-12/STM-4	
0C	OC-12/STM-4 & OC-3, FE	
PA	OC-48/STM-16 Multirate	
0H	OC-192/STM-64 Multirate	
DR	Dual rate (FE & GE)	
DL	Dual rate (FE & 10BASE-FL)	
LB	Low bitrate (2Mbits)	
HB	High bitrate (1.5G)	
L0	LTE [CPRI/OBSAI] 0.614G	
L1	LTE [CPRI/OBSAI] 1.228G	
L2	LTE [CPRI/OBSAI] 2.457G	
L3	LTE [CPRI/OBSAI] 3.072G	
L5	LTE [CPRI/OBSAI] 4.915G	
L6	LTE [CPRI/OBSAI] 6.144G	
LX	LTE [CPRI/OBSAI] 9.830G	
1R	1G/10G rate select	
ES	Escon	

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#07 Reference tables

Temperature, connector & miscellaneous					
[E notation]	Short Definition	Characteristics	[E notation]	Short Definition	Characteristics
0	0°C to 70°C, LC (Rj45 if SFT/SGT)		R	0°C to 40°C, LC	
1	-20°C to 85°C, LC (Rj45 if SFT/SGT)		S	-10°C to +85°C, LC	
2	-40°C to 85°C, LC (Rj45 if SFT/SGT)		T	0°C to 70°C, LC/APC	
3	0°C to 70°C, SC		U	0°C to 85°C, LC/PC	
4	-20°C to 85°C, SC		Y	0°C to 70°C, LC, NON-MSA	
5	-40°C to 85°C, SC		Z	-40°C to 85 °C, LC, NON-MSA	
6	20°C to 65°C, LC		9	-40°C to 85°C, Coax 75ohm, ROHs6	For copper SFP
B	-40°C to 85°C, LC, Ind. hardware		A	0°C to 70°C, Rj45, Misc hardware	[SFT & SGT]
C	0°C to 70°C, Optolock®		D	-40°C to 85°C, Coax 75ohm	•
F	-40°C to 90°C, LC		J	-40°C to 85°C, Rj45, NEBS3	•
G	0°C to 70°C, LC, Misc hardware		M	-40°C to 85°C, Rj45, LOS	•
I	0°C to 70°C, LC, sp. Optical values		H	-40°C to 85°C, Rj45, Misc	•
K	0°C to 70°C, SC/APC		A	0°C to 70°C, LC, Arista hardware	For SFP+
L	-5°C to 70°C, LC		E	0°C to 70°C, LC, Extreme Networks hardware	[SPP, SPC, SPD, SPB]
N	-20°C to 70°C, LC		G	0°C to 70°C, LC, HP-Procurves hardware	•
Q	0°C to 70°C, LC, SM Fibre		P	0°C to 70°C, MPO connector	For QSFP+ & QSFP28

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#07 Reference tables

Digital Diagnostics Monitoring & Options					
[F notation]	Short Definition	Characteristics	[F notation]	Short Definition	Characteristics
0	DDM not implemented	For SFP+	3	SGMII, Auto, w/o LOS, Master, Fin	
A	DDM, linear amplifier	[SPP, SPC, SPD, SPB]	B	SGMII, Auto, w/o LOS, Master, Fin	
C	DDM, CDR (Sonet/SDH applications)	•	D	1000Base-X Serdes, Auto, with LOS, Slave, Fin	
D	DDM, limiting amplifier	•	E	1000Base-X Serdes, w/o LOS, Slave, Fin	
E	DDM, DFB + Mach Zehnder, linear	•	F	SGMII, Auto, with LOS, Slave, Fin	
F	DDM, DFB + Mach Zehnder, CDR	•	G	1000Base-X, with LOS, SyncE, Master	
G	DDM, DFB + Mach Zehnder, limiting	•	H	1000Base-X, with LOS, SyncE, Slave	
H	DDM, High Sensitivity (APD) & CDR	•	I	SGMII, Auto, with LOS, Master, Fin	
0	DDM not implemented – Option 2	For Compact SFP	D	DDM, channel 17 to 61	For XFP Tunable
D	DDM, option 2	[SCD, SCU]	G	DDM, channel 11 to 61	[XFDTU]
1	DDM not implemented – Option 1	•	D	DDM	For XFP
E	DDM, option 1	•	F	DDM, DFB + Mach Zehnder	[XFP/XFC/XFD]
C	DDM, option 2, specifics hardware	•	D	DDM	For QSFP+
1	SGT: 1000Base-X Serdes, Auto, w/o LOS	For copper SFP	P	DDM, Pigtail cable	•
1	SFT: 1000Base-X, with LOS	[SFT & SGT]	U	DDM, UNIV (SM & MM)	•
A	SGT: 1000Base-X Serdes, Auto, w/o LOS, Master, Fin	•	S	Sonet over Ethernet	For enhanced transceivers
A	SFT: 1000Base-X Serdes, with LOS, Master, Fin	•	D	DDM, EML Version	
2	Specifics configuration [100BASE-FX]		F	DDM, with FEC (forward error correction)	For QSFP28

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#07 Reference tables

Configuration		
[GGG notation]	Short Definition	Characteristics
xxx	Refers to a particular configuration of the transceiver.	0 is the default

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#08 Revision history

Revision	Author	Description
2017-B	Cédric D.	Temperature, connector & misc. (e) update
2017-C	Raymund D.	Change lay-out for easier document update and use new word template