

**SKYLANE**  
OPTICS®

PUBLIC\_REV2017\_N

# Transceiver Product Guide

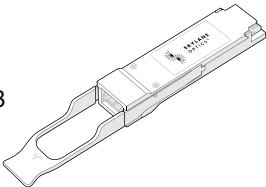


# Products



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QSFP28



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Ribbon Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-SR4	Q2885P10C0PF	103 Gb/s	Multi Mode	850nm	100m	0°C to 70°C
100GBase-SR4/OTU4	Q2885P10C1PF	112 Gb/s	Multi Mode	850nm	100m	0°C to 70°C
100GBase-eSR4	Q2885P30C0PF	103 Gb/s	Multi Mode	850nm	300m	0°C to 70°C
100GBase-eSR4/OTU4	Q2885P30C1PF	112 Gb/s	Multi Mode	850nm	300m	0°C to 70°C
100GBase-PSM4	Q2813P50C0PD	103 Gb/s	Single Mode	1310nm	500m	0°C to 70°C

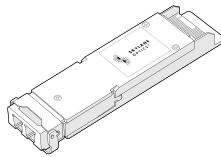
Dual Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-CWDM4	Q28QL002C00F	103 Gb/s	Single Mode	1270/1290/1310/1330nm	2km	0°C to 70°C
100GBase-CLR4	Q28QL002C00D	103 Gb/s	Single Mode	1270/1290/1310/1330nm	2km	0°C to 70°C
100GBase-LR4	Q28QD010C00D	103 Gb/s	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-LR4/OTU4	Q28QD010C10D	112 Gbps	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-ER4 Lite	Q28QD040C00F	103 Gb/s	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C
100GBase-ER4/OTU4 Lite	Q28QD040C10F	112 Gbps	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C

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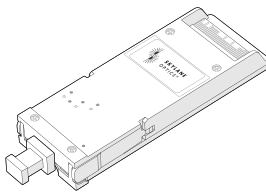
## CFP4



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Dual Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-LR4	CF4QD010C00D	103 Gb/s	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-LR4/OTU4	CF4QD010C10D	112 Gbps	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-ER4 Lite	CF4QD040C00F	103 Gb/s	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C
100GBase-ER4/OTU4 Lite	CF4QD040C10F	112 Gbps	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C

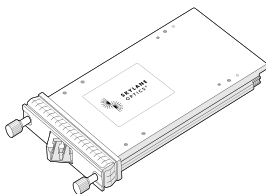
## CFP2



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Dual Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-LR4	CF2QD010C00D	103 Gb/s	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-LR4/OTU4	CF2QD010C10D	112 Gbps	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-ER4	CF2QD040C00D	103 Gb/s	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C
100GBase-ER4/OTU4	CF2QD040C10D	112 Gbps	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C

## CFP



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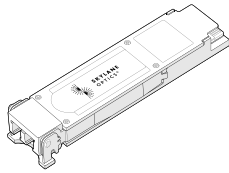
CFP / Dual Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-LR4	CFPQD010C00D	103 Gb/s	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-LR4 OTU4	CFPQD010C10D	112 Gbps	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-ER4	CFPQD040C00D	103 Gb/s	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C
100GBase-ER4/OTU4	CFPQD040C10D	112 Gbps	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C

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## QSFP+



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Ribbon Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
40GBase-SR4	QFP85xxx40PD	40 Gb/s	Multi Mode	850nm	100/300m	0°C to 70°C
40GBase-PSM4 IR4	QFP13C1440PD	40 Gb/s	Single Mode	1310nm	1,4km	0°C to 70°C
40GBase-PSM4 LR4	QFP1301040PD	40 Gb/s	Single Mode	1310nm	10km	0°C to 70°C

Dual Fiber						
40GBase-IR4	QFPQLC1400D	40 Gb/s	Single Mode	1270/1290/1310/1330nm	1,4km	0°C to 70°C
40GBase-LX4	QFPQL002400U	40 Gb/s	Single/Multi Mode	1270/1290/1310/1330nm	2km	0°C to 70°C
40GBase-LR4	QFPQL010400D	40 Gb/s	Single Mode	1270/1290/1310/1330nm	10km	0°C to 70°C
40GBase-ER4	QFPQL040400D	40 Gb/s	Single Mode	1270/1290/1310/1330nm	40km	0°C to 70°C

## SFP28



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Dual Fiber						
25GBase-SR	S2885P10250F	25 Gb/s	Multi Mode	850nm	100m	-40°C to 85°C
25GBase-LR	S2813010250D	25 Gb/s	Single Mode	1310nm	10km	-40°C to 85°C
25GBase-ER	S2813040250F	25 Gb/s	Multi Mode	1310nm	40km	0°C to 70°C

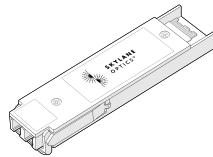
Dual Fiber CWDM						
25GBase-CWDM	S2CXX010250D	25 Gb/s	Single Mode	CWDM ITU ch.	10km	-20°C to 85°C

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XFP



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Dual Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-SR	XFP85P3010xD	10.3 Gb/s	Multi Mode	850nm	300m	-40°C to 85°C
10GBase-LR	XFP1301010xD	10.3 Gb/s	Single Mode	1310nm	10km	-40°C to 85°C
10GBase-LR/OC-192	XFP130100HxD	11.35 Gb/s	Single Mode	1310nm	10km	-40°C to 85°C
10GBase-LR	XFP1302010xD	10.3 Gb/s	Single Mode	1310nm	20km	-40°C to 85°C
10GBase-ER	XFP1504010xD	10.3 Gb/s	Single Mode	1550nm	40km	-40°C to 85°C
10GBase-ER/OC-192	XFP150400HxD	11.35 Gb/s	Single Mode	1550nm	40km	-40°C to 85°C
10GBase-ZR	XFP1508010xD	10.3 Gb/s	Single Mode	1550nm	80km	-40°C to 85°C
10GBase-ZR/OC-192	XFP150800HxD	11.35 Gb/s	Single Mode	1550nm	80km	-40°C to 85°C

Dual Fiber CWDM						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-CWDM	XFCxxB1010xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	10dB	-40°C to 85°C
10GBase-CWDM	XFCxx04010xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	14dB/40km	-40°C to 85°C
10GBase-CWDM	XFCxx07010xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	23dB/70km	-40°C to 85°C

Dual Fiber DWDM						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-DWDM	XFDxx04010xD	10.3 Gb/s	Single Mode	DWDM ITU ch.	14dB/40km	-40°C to 85°C
10GBase-DWDM/OC-192	XFDxx0400HxD	11.35 Gb/s	Single Mode	DWDM ITU ch.	14dB/40km	-40°C to 85°C
10GBase-DWDM	XFDxx08010xD	10.3 Gb/s	Single Mode	DWDM ITU ch.	23dB/80km	-40°C to 85°C
10GBase-DWDM OC-192	XFDxx0800HxD	11.35 Gb/s	Single Mode	DWDM ITU ch.	23dB/80km	-40°C to 85°C

Tunable						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-Tunable	XFDTU0800H0D	11.35 Gb/s	Single Mode	50GHz DWDM tun	23dB/80km	0°C to 70°C

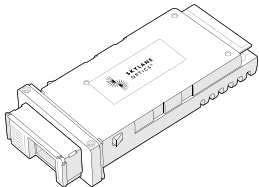
Single Fiber BIDI						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-Bidi	XFB23xxx10xD	10.3 Gb/s	Single Mode	1270/1330nm	10/20/40/60km	-40°C to 85°C
10GBase-Bidi	XFB32xxx10xD	10.3 Gb/s	Single Mode	1330/1270nm	10/20/40/60km	-40°C to 85°C

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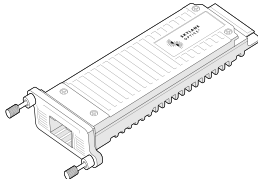
X2



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Converter						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
X2	X2S00000100D	10.3 Gb/s	n/a	n/a	n/a	0°C to 70°C

XENPAK



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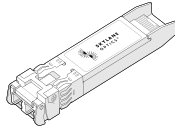
Converter						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
Xenpak	XPS00000100D	10.3 Gb/s	n/a	n/a	n/a	0°C to 70°C

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Dual Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
16x Fiber Channel SW	SPP85P10160C	14.025 Gb/s	Multi Mode	850nm	100m	0°C to 70°C
16x Fiber Channel LW	SPP13010160C	14.025 Gb/s	Single Mode	1310nm	10km	0°C to 70°C
6G CPRI SR	SPP85P30L6xD	6.144 Gb/s	Multi Mode	850nm	300m	-20°C to 85°C
6G CPRI LR	SPP13002L6xD	6.144 Gb/s	Single Mode	1310nm	2km	-40°C to 85°C
6G CPRI LR	SPP13010L62D	6.144 Gb/s	Single Mode	1310nm	10km	-40°C to 85°C
10GBase-T	SPT00M301000	10.3 Gb/s	Copper	n/a	30m	0°C to 70°C
10GBase-SR	SPP85P3010xD	10.3 Gb/s	Multi Mode	850nm	300m	-40°C to 85°C
10GBase-LRM	SPP13P2210xA	10.3 Gb/s	Multi Mode	1310nm	220m	-40°C to 85°C
10GBase-LR	SPP13xxx10xD	10.3 Gb/s	Single Mode	1310nm	10/20km	-40°C to 85°C
10GBase-ER	SPP1504010xD	10.3 Gb/s	Single Mode	1550nm	40km	-40°C to 85°C
10GBase-ZR	SPP1508010xD	10.3 Gb/s	Single Mode	1550nm	80km	-40°C to 85°C
10GBase-ZR100	SPP15100100D	10.3 Gb/s	Single Mode	1550nm	100km	0°C to 70°C

Dual Fiber CWDM						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-CWDM	SPCxxB1010xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	10dB	-40°C to 85°C
10GBase-CWDM	SPCxx04010xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	14dB/40km	-40°C to 85°C
10GBase-CWDM	SPCxx07010xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	23dB/70km	-40°C to 85°C



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Single Fiber CWDM						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
6G CPRI CWDM	SBHxDxxxL62D	6.144 Gb/s	Single Mode	CWDM ITU ch.	10dB/18dB	-40°C to 85°C
6G CPRI CWDM	SBHxUxxxL62D	6.144 Gb/s	Single Mode	CWDM ITU ch.	10dB/18dB	-40°C to 85°C

Dual Fiber DWDM						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-DWDM	SPDxx04010xD	10.3 Gb/s	Single Mode	DWDM ITU ch.	14dB/40km	-40°C to 85°C
10GBase-DWDM	SPDxx08010xD	10.3 Gb/s	Single Mode	DWDM ITU ch.	23dB/80km	-40°C to 85°C

Tunable						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-Tunable	SPDTU08010xD	11.35 Gb/s	Single Mode	50GHz DWDM tun	23dB/80km	-40°C to 85°C

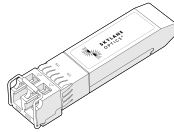
Single Fiber BIDI						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-Bidi	SPB23xxx10xD	10.3 Gb/s	Single Mode	1270/1330nm	10/20/40/60km	-40°C to 85°C
10GBase-Bidi	SPB32xxx10xD	10.3 Gb/s	Single Mode	1330/1270nm	10/20/40/60km	-40°C to 85°C
10GBase-Bidi	SPB45080100D	10.3 Gb/s	Single Mode	1490/1550nm	80km	0°C to 70°C
10GBase-Bidi	SPB54080100D	10.3 Gb/s	Single Mode	1550/1490nm	80km	0°C to 70°C

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Dual Fiber						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100Base-LX	SF P13xxxFExD	125 Mb/s	Single Mode	1310nm	2/10/20/30/40/60km	-40°C to 85°C
100Base-LX SGMII	SGP13xxxFExD	125 Mb/s	Single/Multi Mode	1310nm	2/10km	-40°C to 85°C
100Base-ZX	SFP15080FExD	125 Mb/s	Single Mode	1550nm	80km	-40°C to 85°C
1000Base-SX	SFP85P55GExD	1.25 Gb/s	Dual Fibre-MM	850nm	550m	-40°C to 85°C
1000Base-LX	SFP13001GExD	1.25 Gb/s	Dual Fibre-MM	1310nm	2km	-40°C to 85°C
1000Base-LX40	SFP13xxxGExD	1.25 Gb/s	Single Mode	1310nm	10/20km	-40°C to 85°C
1000Base-EX	SFP13040GExD	1.25 Gb/s	Single Mode	1310nm	40km	-40°C to 85°C
1000Base-ZX	SFP15xxxGExD	1.25 Gb/s	Single Mode	1550nm	60/80/120km	-40°C to 85°C
OC-48 Multi Rate SX	SFP13002PAxD	2.67 Gb/s	Single Mode	1310nm	2km	-40°C to 85°C
OC-48 Multi Rate LX	SFP13020PAxD	2.67 Gb/s	Single Mode	1310nm	20km	-40°C to 85°C
OC-48 Multi Rate LX40	SFP13040PAxD	2.67 Gb/s	Single Mode	1310nm	40km	-40°C to 85°C
OC-48 Multi Rate EX	SFP15040PAxD	2.67 Gb/s	Single Mode	1550nm	40km	-40°C to 85°C
OC-48 Multi Rate ZX	SFP15080PAxD	2.67 Gb/s	Single Mode	1550nm	80km	-40°C to 85°C
3G CPRI Base-SX	SFP85P30L31D	3.072 Gb/s	Multi Mode	850nm	300m	-20°C to 85°C
3G CPRI SX	SFP13002L32D	3.072 Gb/s	Single Mode	1310nm	2km	-40°C to 85°C
3G CPRI LX	SFP13010L32D	3.072 Gb/s	Single Mode	1310nm	10km	-40°C to 85°C

Dual Fiber CWDM						
1000Base-CWDM	SFCxx040GE0D	1.25 Gb/s	Single Mode	CWDM ITU ch.	16dB/40km	0°C to 70°C
1000Base-CWDM	SFCxx080GE0D	1.25 Gb/s	Single Mode	CWDM ITU ch.	24dB/80km	0°C to 70°C
1000Base-CWDM	SFCxx120GE0D	1.25 Gb/s	Single Mode	CWDM ITU ch.	32dB/120km	0°C to 70°C
1000Base-CWDM	SFCxx160GE0D	1.25 Gb/s	Single Mode	CWDM ITU ch.	40dB/160km	0°C to 70°C
4x Fiber Channel-CWDM	SFCxx040F0D	4.25Gb/s	Single Mode	CWDM ITU ch.	16dB/40km	0°C to 70°C
4x Fiber Channel-CWDM	SFCxx0804F0D	4.25Gb/s	Single Mode	CWDM ITU ch.	24dB/80km	0°C to 70°C
OC-48 Multi Rate CWDM	SFCxx040PAxD	2.67Gb/s	Single Mode	CWDM ITU ch.	16dB/40km	-20°C to 85°C
OC-48 Multi Rate CWDM	SFCxx080PAxD	2.67Gb/s	Single Mode	CWDM ITU ch.	24dB/80km	-20°C to 85°C

Single Fiber CWDM						
3G CPRI Bidi CWDM	SBHxDB22L32D	3.072 Gb/s	Single Mode	CWDM ITU ch.	22dB	-40°C to 85°C
3G CPRI Bidi CWDM	SBHxUB22L32D	3.072 Gb/s	Single Mode	CWDM ITU ch.	22dB	-40°C to 85°C



Dual Fiber DWDM						
STANDARD	PART NUMBER	DUAL RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
1000Base-DWDM	SFDxyyyGE0D	1.25 Gb/s	Single Mode	DWDM ITU ch.	80/100/120km	0°C to 70°C

Copper						
1000BASE-T	SFT00P10GE0x	1.25 Gb/s	Copper	n/a	100m	0°C to 70°C
1000BASE-T	SGT00P10DR0x	1.25 Gb/s	Copper	n/a	100m	0°C to 70°C

Single Fibre BIDI						
1000Base-BXD	SBD53xxxFExD	125 Mb/s	Single Mode	1550/1310nm	10/20/40/60km	-40°C to 85°C
1000Base-BXU	SBU35xxxFExD	125 Mb/s	Single Mode	1310/1550nm	10/20/40/60km	-40°C to 85°C
1000Base-BXD SGMII	SGD53010FExD	125 Mb/s	Single Mode	1550/1310nm	10km	-40°C to 85°C
1000Base-BXU SGMII	SGU35010FExD	125 Mb/s	Single Mode	1310/1550nm	10km	-40°C to 85°C
1000Base-BXD	SBD53xxxGExD	1.25 Gb/s	Single Mode	1550/1310nm	3/10/20/40/60km	-40°C to 85°C
1000Base-BXU	SBU35xxxGExD	1.25 Gb/s	Single Mode	1310/1550nm	3/10/20/40/60km	-40°C to 85°C
1000Base-BXD	SBD43xxxGExD	1.25 Gb/s	Single Mode	1490/1310nm	10/20/40/60km	-40°C to 85°C
1000Base-BXU	SBU34xxxGExD	1.25 Gb/s	Single Mode	1310/1490nm	10/20/40/60km	-40°C to 85°C
1000Base-BXD	SBD43xxxDRxD	1.25 Gb/s	Single Mode	1490/1310nm	10/20km	-40°C to 85°C
1000Base-BXU	SBU34xxxDRxD	1.25 Gb/s	Single Mode	1310/1490nm	10/20km	-40°C to 85°C
1000Base-BXD	SBD53xxxDRxD	1.25 Gb/s	Single Mode	1550/1310nm	10/20km	-40°C to 85°C
1000Base-BXU	SBU35xxxDRxD	1.25 Gb/s	Single Mode	1310/1550nm	10/20km	-40°C to 85°C

2x Single Fibre C-SFP						
1000Base-BXD CSFP	SCD53xxxDRxD	1.25 Gb/s	Single Mode	1550/1310nm	10/20km	0°C to 70°C
1000Base-BXD CSFP	SCD53xxxGExD	1.25 Gb/s	Single Mode	1550/1310nm	10/20km	0°C to 70°C
1000Base-BXD CSFP	SCD43xxxGExD	1.25 Gb/s	Single Mode	1490/1310nm	10/20/40km	0°C to 70°C