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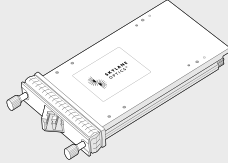
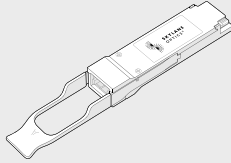
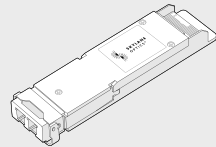
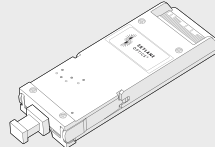
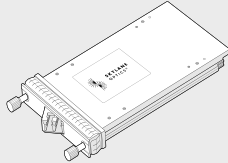
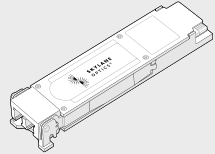
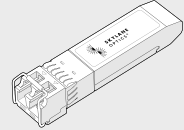
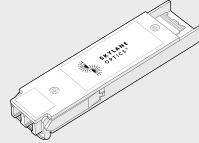
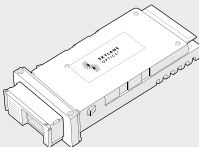
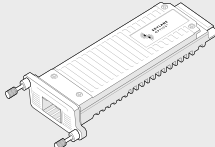
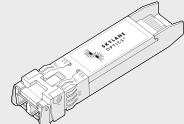
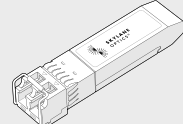
Product Guide

Summary



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TRANSCEIVERS

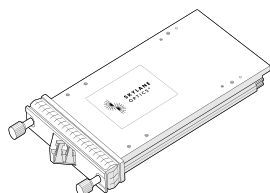
<p>COHERENT</p>  <p>P03</p>	<p>QSFP28</p>  <p>P03</p>	<p>CFP4</p>  <p>P04</p>	<p>CFP2</p>  <p>P04</p>
<p>CFP</p>  <p>P04</p>	<p>QSFP+</p>  <p>P05</p>	<p>SFP28</p>  <p>P05</p>	<p>XFP</p>  <p>P06</p>
<p>X2</p>  <p>P07</p>	<p>XENPAK</p>  <p>P07</p>	<p>SFP+</p>  <p>P08</p>	<p>SFP</p>  <p>P09/10</p>

Transceivers



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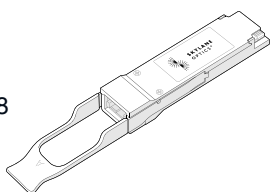
COHERENT



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Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
CFP DCO (Digital)	CFDTUDCOMR00	112 Gb/s	DWDM	12,5GHz DWDM tun	2000km	0°C to 70°C
CFP2 DCO (Digital)	C2DTUDCOMR01	200 Gb/s	DWDM	50GHz DWDM tun	1200km	0°C to 70°C
CFP2 DCO (Digital)	C2DTUDCOMR02	112 Gb/s	DWDM	50GHz DWDM tun	2000km	0°C to 70°C
CFP2 ACO (Analog)	C2DTUACOMR01	200 Gb/s	DWDM	6,25GHz DWDM tun	1200km	0°C to 70°C

QSFP28



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Parallel Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-SR4	Q2885P10C0PF	103 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-PSM4	Q2813P50C0PD	103 Gb/s	Single Mode	1310nm	500m	0°C to 70°C

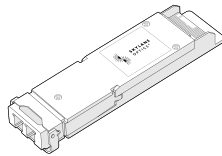
Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-CWDM4	Q28QL002C00F	103 Gb/s	Single Mode	1270/1290/1310/1330nm	2km	0°C to 70°C
100GBase-CLR4	Q28QL002C00D	103 Gb/s	Single Mode	1270/1290/1310/1330nm	2km	0°C to 70°C
100GBase-LR4	Q28QD010C0xD	103 Gb/s	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-LR4 RX Only	QSRSR07C00D	103 Gb/s	Single Mode	n/a	n/a	0°C to 70°C
100GBase-LR4/OTU4	Q28QD010C10D	112 Gb/s	Single Mode	LAN-WDM 800GHz	10km	0°C to 70°C
100GBase-eLR4	Q28QD020C00D	103 Gb/s	Single Mode	LAN-WDM 800GHz	20km	0°C to 70°C
100GBase-ER4 Lite	Q28QD040C00F	103 Gb/s	Single Mode	LAN-WDM 800GHz	40km	0°C to 70°C

Transceivers



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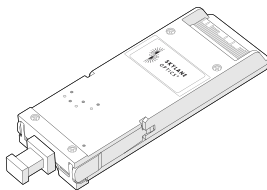
CFP4



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Dual Fibre						
STANDARD	PART NUMBER	DATA 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 Gb/s	Single Mode	LAN-WDM 800Ghz	10km	0°C to 70°C

CFP2

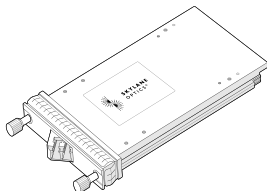


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Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-LR4	CF2QD010C00D	103 Gb/s	Single Mode	LAN-WDM 800Ghz	10km	0°C to 70°C
100GBase-LR4/OTU4	CF2QD010C10D	112 Gb/s	Single Mode	LAN-WDM 800Ghz	10km	0°C to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

Converter						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
CFP2 to QSFP28 converter	C2Q00000C00D	103 Gb/s	n/a	n/a	n/a	0°C to 70°C

CFP



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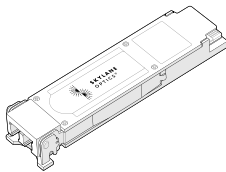
Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100GBase-LR4	CFPQD010C00D	103 Gb/s	Single Mode	LAN-WDM 800Ghz	10km	0°C to 70°C
100GBase-LR4/OTU4	CFPQD010C10D	112 Gb/s	Single Mode	LAN-WDM 800Ghz	10km	0°C to 70°C
100GBase-ER4	CFPQD040C00D	103 Gb/s	Single Mode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

Transceivers



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QSFP+



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Parallel Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
40GBase-SR4	QFP85P1040PD	40 Gb/s	Multi Mode	850nm	100m	0°C to 70°C
40GBase-eSR4	QFP85P03040PD	40 Gb/s	Single Mode	850nm	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 Fibre						
40GBase-IR4	QFPQL002400D	40 Gb/s	Single Mode	1270/1290/1310/1330nm	2km	0°C to 70°C
40GBase-LX4	QFPQL002400U	40 Gb/s	Single/Multi Mode	1270/1290/1310/1330nm	2km/150m	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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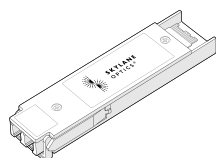
Dual Fibre						
25GBase-SR	S2885P10250F	25 Gb/s	Multi Mode	850nm	100m	-40°C to 85°C
25GBase-LR	S2813010250D	25 Gb/s	Single Mode	1310nm	10km	-40°C to 85°C

Transceivers



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XFP



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Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-SR	XFP85P3010xD	10.3 Gb/s	Multi Mode	850nm	300m	-40°C to 85°C
10GBase-LR	XFP130x010xD	10.3 Gb/s	Single Mode	1310nm	10/20km	-40°C to 85°C
10GBase-LR Multi rate	XFP130x00HxD	11.35 Gb/s	Single Mode	1310nm	10/20km	-40°C to 85°C
10GBase-ER	XFP1504010xD	10.3 Gb/s	Single Mode	1550nm	40km	-40°C to 85°C
10GBase-ER Multi Rate	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 Multi Rate	XFP150800HxD	11.35 Gb/s	Single Mode	1550nm	80km	-40°C to 85°C

Dual Fibre CWDM						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-CWDM	XFCxxxx10xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	10/14/23dB-40/70km	-40°C to 85°C

Dual Fibre DWDM						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-DWDM	XFDxxxx10xD	10.3 Gb/s	Single Mode	DWDM ITU ch.	40/80km	-40°C to 85°C
10GBase-DWDM Multi Rate	XFDxxxx0HxD	11.35 Gb/s	Single Mode	DWDM ITU ch.	40/80km	-40°C to 85°C

Tunable						
STANDARD	PART NUMBER	DATA 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

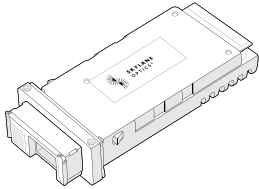
Single Fibre BIDI						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
10GBase-Bidi	XFB23xxx10xD	10.3 Gb/s	Single Mode	1270/1330nm	10/20/40/60km	-40°C to 85°C
10GBase-Bidi	XFB32xxx10xD	10.3 Gb/s	Single Mode	1330/1270nm	10/20/40/60km	-40°C to 85°C

Transceivers



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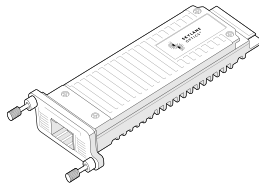
X2



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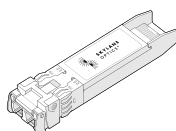
Converter						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
Xenpak	XPS00000100D	10.3 Gb/s	n/a	n/a	n/a	0°C to 70°C

Transceivers



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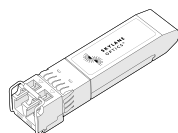
Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
16x Fiber Channel SW	SPP85P10160C	14.025 Gb/s	Multi Mode	850nm	100m	0°C to 70°C
16x Fiber Channel LW	SPP13010160C	14.025 Gb/s	Single Mode	1310nm	10km	0°C to 70°C
6G CPRI	SPPxxxxL6xD	6.144 Gb/s	Single Mode / Multi Mode	850/1310nm	300m / 2/10km	-40°C to 85°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	SPP15xxx10xD	10.3 Gb/s	Single Mode	1550nm	80/100km	-40°C to 85°C
Dual Fibre CWDM						
10GBase-CWDM	SPCxxxx10xD	10.3 Gb/s	Single Mode	CWDM ITU ch.	10/14/23dB-40/70km	-40°C to 85°C
Single Fibre CWDM						
6G CPRI CWDM	SBHxxxxL62D	6.144 Gb/s	Single Mode	CWDM ITU ch.	10dB/18dB	-40°C to 85°C
Dual Fibre DWDM						
10GBase-DWDM	SPDxxxx10xD	10.3 Gb/s	Single Mode	DWDM ITU ch.	14/23dB-40/80km	-40°C to 85°C
Tunable						
10GBase-Tunable	SPDTU08010xD	11.35 Gb/s	Single Mode	50GHz DWDM tun	80km	-40°C to 85°C
10GBase-NarrowTunable	SPDTx080100D	11.35 Gb/s	Single Mode	C-Band 50GHz DWDM	80km	-40°C to 85°C
Copper						
10GBase-T	SPT00M301000	10.3 Gb/s	Copper	n/a	30m	0°C to 70°C
Single Fibre BIDI						
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

Transceivers



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Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100Base-LX	SFP13xxxFExD	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	Multi Mode	850nm	550m	-40°C to 85°C
1000Base-LXM	SFP13001GExD	1.25 Gb/s	Multi Mode	1310nm	1km	-40°C to 85°C
1000Base-LX	SFP13xxxGExD	1.25 Gb/s	Single Mode	1310nm	10/20km	-40°C to 85°C
1000Base-LX40	SFP13040GExD	1.25 Gb/s	Single Mode	1310nm	40km	-40°C to 85°C
1000Base-EX	SFP15040GExD	1.25 Gb/s	Single Mode	1550nm	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	SFPxxxxPAxD	2.67 Gb/s	Single Mode	1310/1550nm	2/20/40/80km	-40°C to 85°C
3G CPRI	SFPxxxxL3xD	3.072 Gb/s	Single/Multi Mode	850/1310nm	300m/2/10km	-40°C to 85°C

Dual Fibre CWDM						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
1000Base-CWDM	SFCxxxxGE0D	1.25 Gb/s	Single Mode	CWDM ITU ch.	16/24/32/40dB-40/80/120/160km	0°C to 70°C
4x Fiber Channel-CWDM	SFCxx0404F0D	4.25Gb/s	Single Mode	CWDM ITU ch.	16/24dB-40/80km	0°C to 70°C
OC-48 Multi Rate CWDM	SFCxx040PAxD	2.67Gb/s	Single Mode	CWDM ITU ch.	16/24dB-40/80km	-20°C to 85°C

Single Fibre CWDM						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
3G CPRI Bidi CWDM	SBHxxB20L32D	3.072 Gb/s	Single Mode	CWDM ITU ch.	20.5dB	-40°C to 85°C

Dual Fibre DWDM						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
1000Base-DWDM	SFDxxxxGE0D	1.25 Gb/s	Single Mode	DWDM ITU ch.	80/100/120km	0°C to 70°C

Copper						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
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
100BASE-T	SFT00P10FE0x	125 Mb/s	Copper	n/a	100m	0°C to 70°C

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Dual Fibre						
STANDARD	PART NUMBER	DATA RATE	MEDIA TYPE	WAVELENGTH	DISTANCE	TEMPERATURE
100Base-BXD	SBD53xxxFExD	125 Mb/s	Single Mode	1550/1310nm	10/20/40/60km	-40°C to 85°C
100Base-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	SBD43xxxDRxD	1.25 Gb/s	Single Mode	1490/1310nm	10/20/40km	-40°C to 85°C
1000Base-BXU	SBU34xxxDRxD	1.25 Gb/s	Single Mode	1310/1490nm	10/20/40km	-40°C to 85°C
1000Base-BXD	SBD53xxxDRxD	1.25 Gb/s	Single Mode	1550/1310nm	3/10/20/40/60/80km	-40°C to 85°C
1000Base-BXU	SBU35xxxDRxD	1.25 Gb/s	Single Mode	1310/1550nm	3/10/20/40/60/80km	-40°C to 85°C
2x Single Fibre C-SFP						
1000Base-BXD C-SFP	SCD53xxxDRxD	1.25 Gb/s	Single Mode	1550/1310nm	10/20km	0°C to 70°C
1000Base-BXD C-SFP	SCD43xxxDRxD	1.25 Gb/s	Single Mode	1490/1310nm	10/20/40km	0°C to 70°C

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