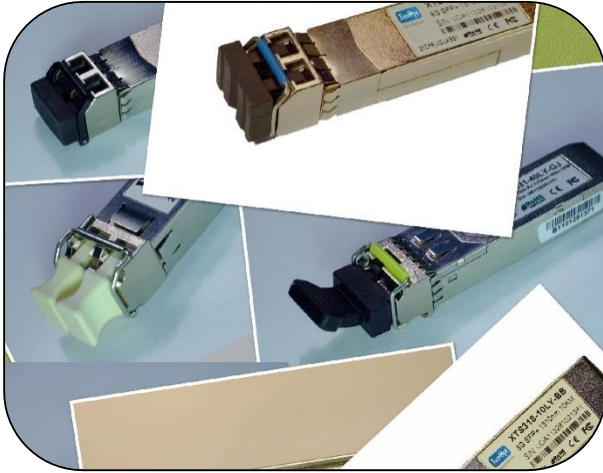


Pluggable Interface Modules

Brief Overview



Highlights:

- MSA compliant
- RoHS compatible
- Compatible with all major vendors
- Standard modules available from stock
- Special modules available on request

Current

SFP+

Standard, DWDM/CWDM, BIDI

SFP

Standard, CWDM, DWDM, BIDI, asymmetric BIDI, copper, SGMI, Video, GEAPON/GPON, 10G EPON/10G GPON, WDM PON

CSFP

BIDI

Video SFP

Transceiver, Single Tx, Single Rx, Dual Tx, Dual Rx

XFP

Standard, DWDM/CWDM, BIDI

QSFP

Standard, CWDM

CFP4

QSFP28

Legacy

GBIC

Standard, CWDM, BIDI, copper

X2

Standard, DWDM/CWDM

XPAK

XENPAK

Standard, DWDM/CWDM

CFP

Name/PN	Description
SFP+	
Multimode, Single mode	
XTMdde-ffLh	SFP+, multimode dd = {85 - 850 nm, 31 - 1310nm} e = {6 - CPRI/OBSAI 6,25 Gb, 8 - 8/4/2 GB (FC) , A - 10 Gb, B - 16 Gb} ff = {M1 - 100 m, M3 - 300 m, 02 - 2 km}, h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
XTSdde-ffLh	SFP+, single mode dd = {31 - 1310 nm, 55 - 1550 nm} e = {6 - CPRI/OBSAI 6,25 Gb, 8 - 8/4/2 GB (FC) , A - 10 Gb, B - 16 Gb} ff = {10, 20, 40, 80, A0 - 10, 20, 40, 80, 100 km respectively} h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
CWDM, DWDM	
XTCdde-ffLh	SFP+, CWDM dd = {Lower WL: 27, 29, ..., 45 - 1270, 1290, ..., 1450 nm respectively; Upper WL: 47, 49, ..., 61 - 1470, 1490, ..., 1610 nm respectively} e = {8 - 8/4/2 GB (FC) , A - 10 Gb, B - 16 Gb} ff = {10, 20, 40, 80 - 10, 20,40, 80 km respectively} h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
XTcdde-ffLh	SFP+, DWDM c = {D - C-band} dd = {17 - 61 ITU grid channel (191,7 THz to 196,1 THz with 100 GHz spacing), TC - Tunable C-band} e = {A - 10 Gb, B - 16 Gb} ff = {40, 80 - 40, 80 km respectively} h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
BIDI	
XTBdde-ffLh	SFP+, BIDI dd = {23 - 1270 nm/1330 nm, 32 - 1330 nm/1270 nm} e = {A - 10 Gb} ff = {10, 20, 40, 50, 60 - 10, 20, 40, 50, 60 km respectively} h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
SFP	
Multimode, Single mode	
XSMdde-ffLh	SFP, multimode dd = {85 - 850 nm, 31 - 1310nm} e = {C - 100/155 Mbps, 1 - 1 Gbps, 2 - 2 G, 4 - 4 G, M - 100 - 2700 Mb Multirate} ff = {M3 - 300 m, M5 - 500 m, 02 - 2 km}, h = {Y - DDMI, N - no DDMI (0° - +70° C), E - DDMI, D - no DDMI (-20° - +85° C), M - DDMI, L - no DDMI (-40° - +85° C)}
XSSdde-ffLh	SFP, single mode dd = {31 - 1310 nm, 55 - 1550 nm} e = {C - 100/155 Mbps, 1 - 1 Gbps, 2 - 2 G, 4 - 4 G, M - 100 - 2700 Multirate} ff = {05, 10, 20, 30 40, 50, 80, C0, F0 - 5, 10, 20, 30, 40, 50, 80, 120, 150 km respectively} h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively, N, D, L - no DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
CWDM, DWDM	
XSCdde-ffLh	SFP, CWDM dd = {Lower WL: 27, 29, ..., 45 - 1270, 1290, ..., 1450 nm respectively; Upper WL: 47, 49, ..., 61 - 1470, 1490, ..., 1610 nm respectively} e = {C - 100/155 Mbps, 1 - 1 Gbps, 4 - 4 G, L - 155 - 1280 Mbps Multirate, M - 100 - 2700 Mbps Multirate} ff = {40, 50, 80, C0, F0, G0, I0, K0 - 40, 50, 80, 120, 150, 160, 180, 200 km respectively} h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively, N, D, L - no DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
XScdde-ffLh	SFP, DWDM C-band/L-band c = {D - C-band, L - L-band} dd = {17 - 61 ITU grid channel (191,7 THz to 196,1 THz with 100 GHz spacing), 62 - 99 and 00 - 16 ITU grid ch. (186,2 THz to 191,6 THz, 100 GHz spacing), TC - Tunable C-band, TL - Tunable L-band} e = {1 - 1 Gbps, 2 - 2 Gbps, M - 100 - 2700 Mbps Multirate} ff = {80, C0 - 80, 120 km respectively} h = {Y, E, M - DDMI (0° - +70° C), (-20° - +85° C), (-40° - +85° C) respectively}
BIDI, Asymmetric BIDI	
XSBdde-ffgh	SFP, BIDI dd = {34 - 1310 nm/1490 nm, 43 - 1490 nm/1310 nm; 35 - 1310 nm/1550 nm, 53 - 1550 nm/1310 nm; 3W - 1310 nm/1490 - 1550 nm; 45 - 1490 nm/1550 nm, 54 - 1550 nm/1490 nm;

	<p>19 – 1510 nm/1590 nm, 91 – 1590 nm/1510 nm} e = {C – 100/155 Mbps, 1 – 1 Gbps, L – 155 – 1280 Mbps Multirate, M – 100 – 2700 Mbps Multirate} ff = {02, 20, 40, 60, 80, C0 – 2, 20, 40, 60, 80, 120 km respectively} g = {S – SC, L – LC} h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively, N, D, L – no DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively} SFP, Asymmetric BIDI dd = {35 – 1310 nm/1550 nm, 53 – 1550 nm/1310 nm} e – Call for information ff = {20, 40 – 20, 40 km respectively} h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively, N, D, L – no DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}</p>
XSBdde-ffLh	
Copper	
	<p>SFP, Copper, Ethernet, 100 m dd = {EC – Ethernet 100 Mb, EF – Ethernet 10/100 Mb, EG – Eth. 1000 Mb, no TX disable function, no Link indicator, E1 – Eth. 1000 Mb, TX disable function, Link indicator, E2 – Eth. 1000 Mb, TX disable function, no Link indicator, EM – Eth. 10/100/1000 Mb, no TX disable function, no Link indicator, EA – Eth. 10/100/1000 Mb, TX disable function, Link indicator, EB – Eth. 10/100/1000 Mb, TX disable function, no Link indicator} e = {C – 100/155 Mbps, 1 – 1 Gbps} h = {Y, E – DDMI (0° – +70° C), (-20° – +85° C) respectively, N, D – no DDMI (0° – +70° C), (-20° – +85° C) respectively}</p>
XSUdde-M1Rh	
SGMI	
	<p>SFP, SGMI, 100/155 Mbps C = {M – Multimode, S – Single mode} ff = {02, 10 – 2, 10 km respectively} g = {S – SC, L – LC} h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively, N, D, L – no DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}</p>
XSc31C-ffLY	
GEPON/GPON	
	Call for information
10 G EPON/10 G GPON	
	Call for information
WDM PON	
	Call for information
CSFP	
BIDI	
	<p>Compact BIDI SFP, 1 Gbps dd = {34 – 1310 nm/1490 nm, 43 – 1490 nm/1310 nm; 53 – 1550 nm/1310 nm} ff = {10, 20, 40 – 10, 20, 40 km respectively} h = {Y, M – DDMI (0° – +70° C), (-40° – +85° C) respectively}</p>
XDBdd1-ffLh	
Video SFP	
Transceiver	
	<p>Video SFP Transceiver c = {8 – Two fiber SM 1x TX, 1x Rx, B – CWDM two fiber 1x TX, 1x RX} dd = {31 – TX: 1310 nm, RX: 1260-1620 nm, 51 – TX: 1550 nm, RX: 1260-1620 nm, lower Wl: 27 – 1270 nm, 29 – 1290 nm, ..., 45 – 1450 nm, upper Wl: 47 – 1470 nm, 49 – 1490 nm, ..., 61 – 1610 nm} ff = {02, 20, 40 – 2, 20, 40 km respectively} h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}</p>
XVcdd3-ffIY	
Single Tx	
	<p>Video SFP Single Tx c = {0 – One fiber SM 1x TX, A – CWDM one fiber 1x TX} dd = {30 – TX: 1310 nm, 50: TX: 1550 nm, lower Wl: 27 – 1270 nm, 29 – 1290 nm, ..., 45 – 1450 nm, upper Wl: 47 – 1470 nm, 49 – 1490 nm, ..., 61 – 1610 nm} ff = {02, 20, 40 – 2, 20, 40 km respectively} h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}</p>
XVcdd3-ffIY	
Single Rx	
XV1103-00LY	Video SFP Single Rx
Dual Tx	
	<p>Video SFP Dual Tx c = {6 – Two fiber SM 2x TX, C – CWDM one fiber 2x TX} dd = {33 – TX1: 1310 nm, TX2: 1310 nm,</p>
XVcdd3-ffLY	

55 – TX1: 1550 nm, TX2: 1550 nm,
 TX1 Wavelength (first d)
 lower WL: 0 – 1270 nm, 1 – 1290 nm, ..., 9 – 1450 nm,
 upper WL: A – 1470 nm, B – 1490 nm, ..., H – 1610 nm
 TX2 Wavelength (second d)
 lower WL: 0 – 1270 nm, 1 – 1290 nm, ..., 9 – 1450 nm,
 upper WL: A – 1470 nm, B – 1490 nm, ..., H – 1610 nm}
 ff = {02, 20, 40 – 2, 20, 40 km respectively}
 h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}

Dual Rx

Video SFP Dual Rx
XV7113-00Lh h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively,
 N, D, L – no DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}

XFP

Multimode, Single mode

XFP, multimode
 dd = {85 - 850 nm, 31 - 1310nm}
 e = {A – 10 Gb}
XXMdde-ffLh ff = {M3 – 300 m, 02 – 2 km},
 h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}

XFP, single mode
 dd = {31 – 1310 nm, 55 – 1550 nm}
 e = {A – 10 Gb}
XXSdde-ffLh ff = {10, 20, 40, 80, C0 – 10, 20, 40, 80, 120 km respectively}
 h = {Y, E, M – DDMI (0° – +70° C), (-20° – +85° C), (-40° – +85° C) respectively}

CWDM, DWDM

XFP, CWDM 10 Gbps, DDMI
XXCddA-ffLY dd = {Lower WL: 27, 29, ..., 45 – 1270, 1290, ..., 1450 nm respectively;
 Upper WL: 47, 49, ..., 61 – 1470, 1490, ..., 1610 nm respectively}
 ff = {10, 40, 70, 80 – 10, 40, 70, 80 km respectively}

XFP, DWDM C-band/L-band, 10 Gbps, DDMI
 c = {D – C-band, L – L-band}
XXcddA-ffLY dd = {17 – 61 ITU grid channel (191,7 THz to 196,1 THz with 100 GHz spacing),
 TC – Tunable C-band,
 62 – 99 and 00 – 16 ITU grid ch. (186,2 THz to 191,6 THz, 100 GHz spacing),
 TL – Tunable L-band}
 ff = {40, 80, C0 – 40, 80, 120 km respectively}

BIDI

XFP, BIDI 10 Gbps, 10 km, DDMI
XXBddA-10LY dd = {23 – 1270 nm/1330 nm, 32 - 1330 nm/1270 nm}

QSFP

Multimode, Single mode

QSFP, multimode, 40 Gbps, DDMI
 dd = {85 - 850 nm, 31 - 1310nm}
 ff = {M1 – 100 m, M3 – 300 m, 02 – 2 km}

XFP, single mode, 1310 nm, 40 Gbps, DDMI
XQS313-ffPY ff = {01, 10 – 1, 10 km respectively}

CWDM

QSFP, CWDM, 1270 nm starting WL, 4 channels, 40 Gbps, DDMI
XQC273-ffLY ff = {M1, 02, 10, 30 – 100 m, 2, 10, 30 km respectively}

CFP4 Call for information

QSFP28 Call for information

Legacy

GBIC, X2, XPAK Call for information

XENPAK, CFP Call for information

Note: In some cases, maybe not all possible combinations are available.

To find out more, please contact:

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