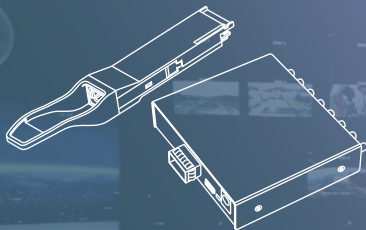


HD Video, Broadcast Transmission & Access Optical Devices Products Brochure



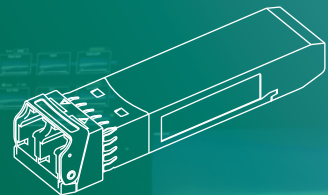
48G SDI QSFP+ Solution (Optical Modules & Extenders)



SDI & CWDM Optical Extenders



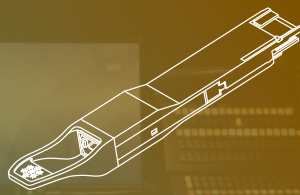
SDI Optical Modules



Parallel High-Speed Datacom Optical Transceivers



xWDM High-Speed Datacom Optical Transceivers



GPON & XG(S)-PON OLT Optical Transceivers



Passive xWDM MUX/DEMUX



48G SDI QSFP+ Solution (Optical Modules & Extenders)

FE1QP-4V12F



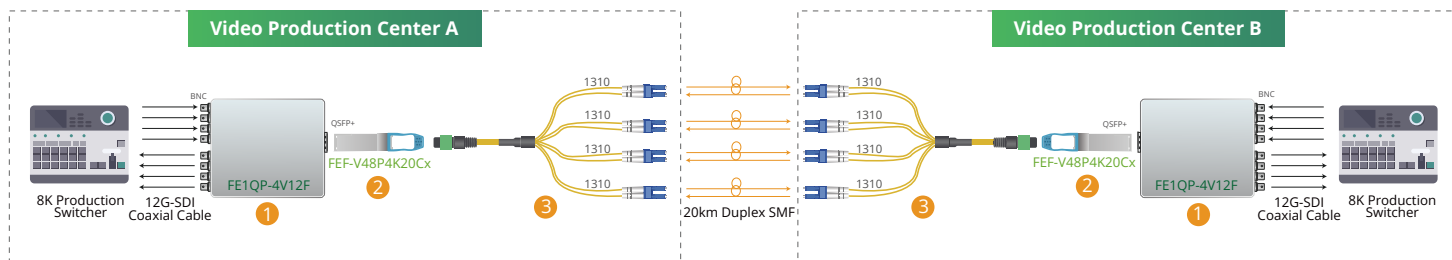
48G SDI QSFP+ Optical Extender

FEF-V48x4K20Cx



48G SDI QSFP+ PSM4 Optical Modules

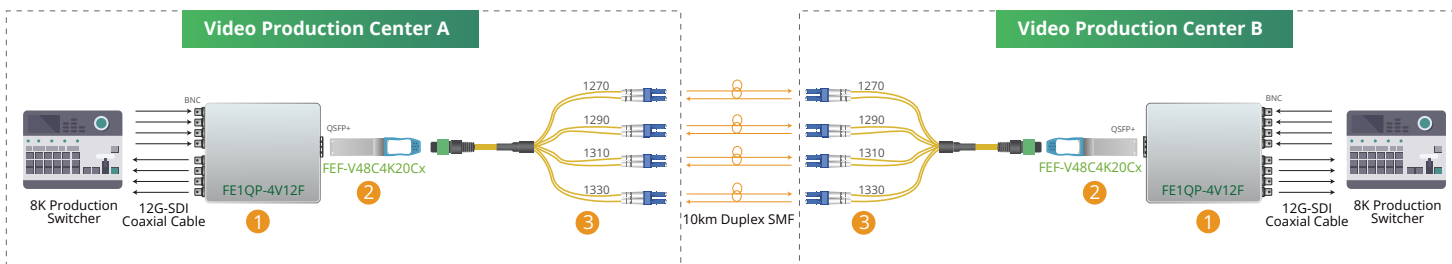
8K Bidirectional Transmission up to 20km over 4x Duplex SMF



- 1 FE1QP-4V12F 48G SDI QSFP+ Optical Extender
- 2 FEF-V48P4K20Cx 48G SDI QSFP+ PSM4 1310nm 10km Transceiver

- 3 MTP to 4x Duplex LC Harness SMF Cable

8K Bidirectional Transmission up to 10km over 4x Duplex SMF



- 1 FE1QP-4V12F 48G SDI QSFP+ Optical Extender
- 2 FEF-V48C4K20Cx 48G SDI QSFP+ PSM4 CWDM 1270/1290/1311/1330nm 10km Transceiver

- 3 MTP to 4x Duplex LC Harness SMF Cable

SDI & CWDM Optical Extenders

■ 4x12G-SDI CWDM Optical Extenders

FE1FC-4V12T



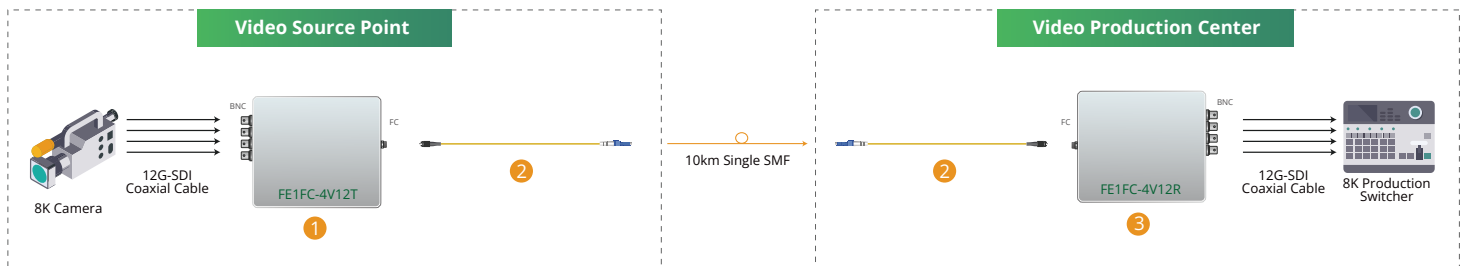
4x12G-SDI CWDM Optical Extender Tx
(4x BNC input, 1x FC output)

FE1FC-4V12R



4x12G-SDI CWDM Optical Extender Rx
(1x FC input, 4x BNC output)

8K Unidirectional Transmission up to 10km over Single SMF

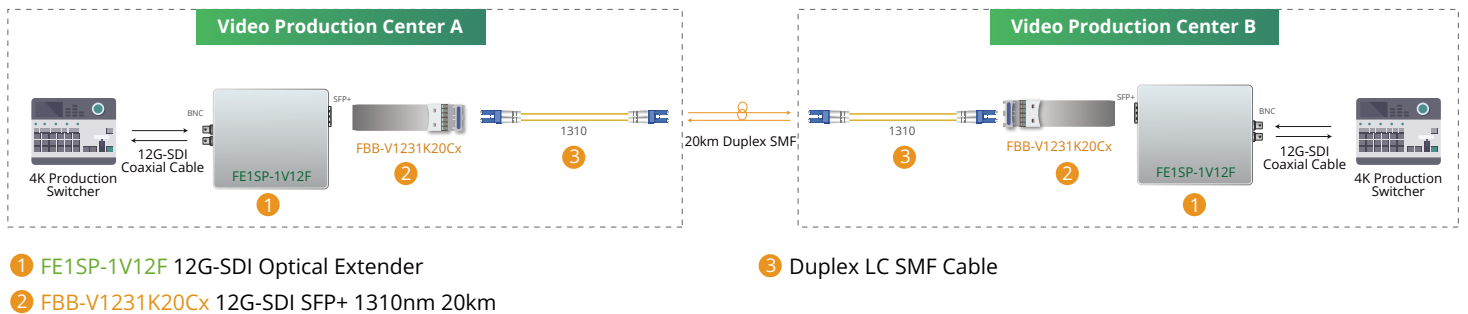


- ① FE1FC-4V12T 4x12G-SDI CWDM Optical Extender Tx
- ② Simplex FC-LC SMF Cable
- ③ FE1FC-4V12R 4x12G-SDI CWDM Optical Extender Rx

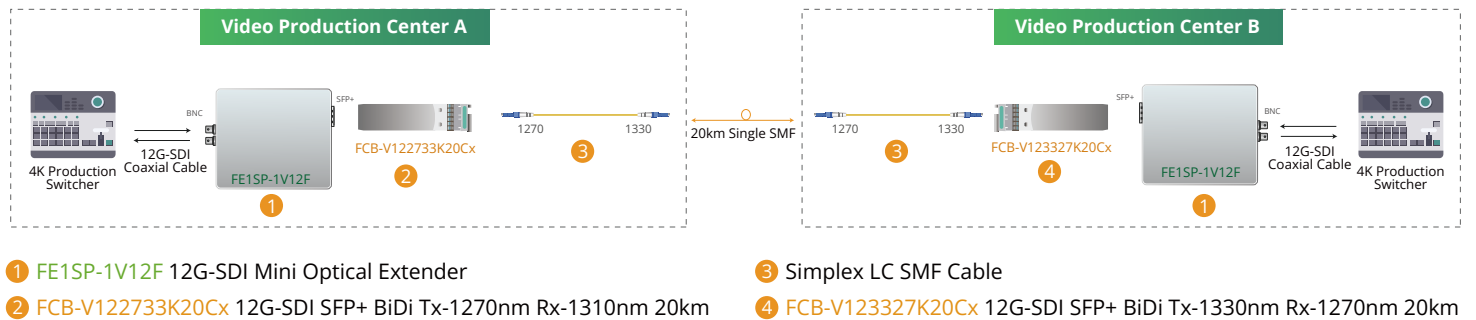
■ 12G-SDI Mini Optical Extenders



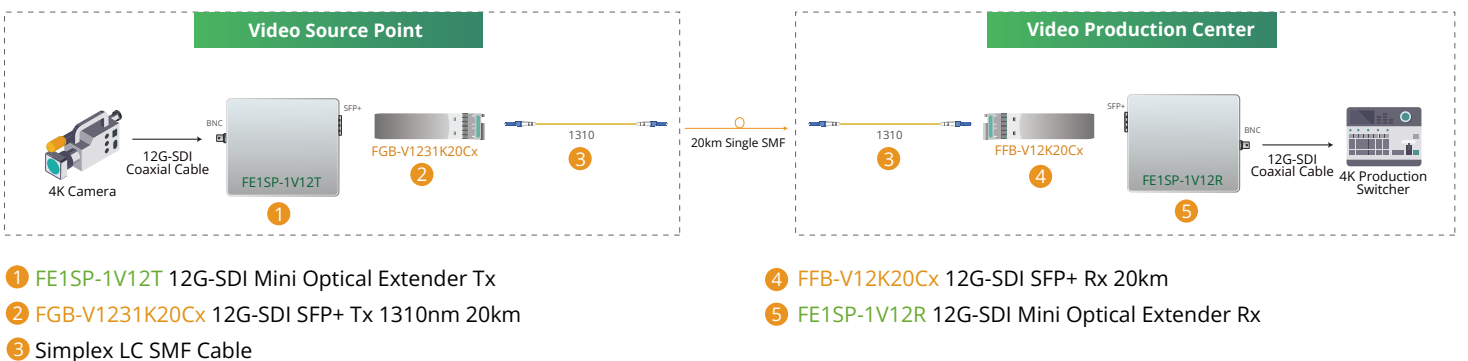
4K UHD Video Bidirectional Transmission up to 20km over Duplex SMF



4K UHD Video Bidirectional Transmission up to 20km over Simplex SMF



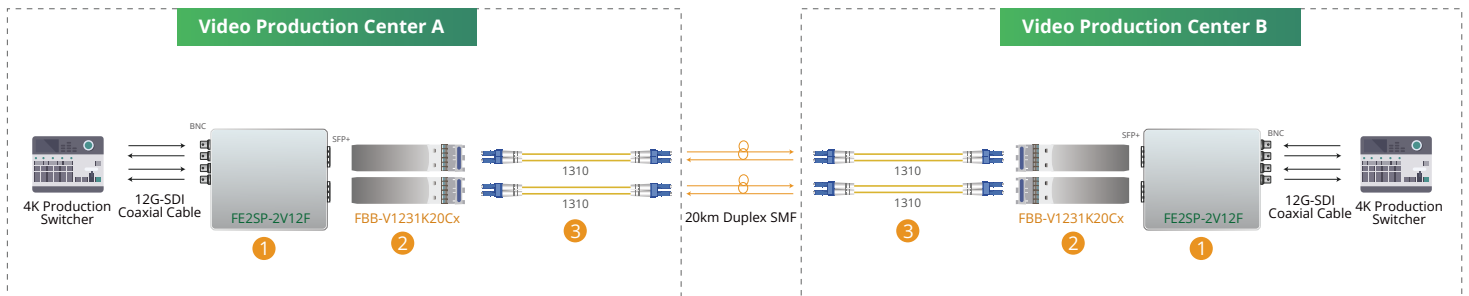
4K UHD Video Unidirectional Transmission up to 20km over Simplex SMF



■ 2x12G-SDI & 4x3G-SDI Optical Extenders

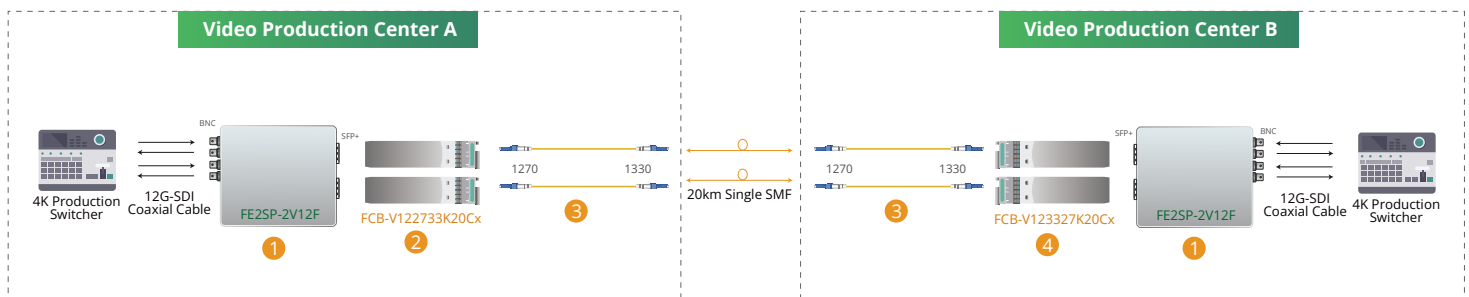


Dual 4K Bidirectional Transmission up to 20km over Duplex SMF



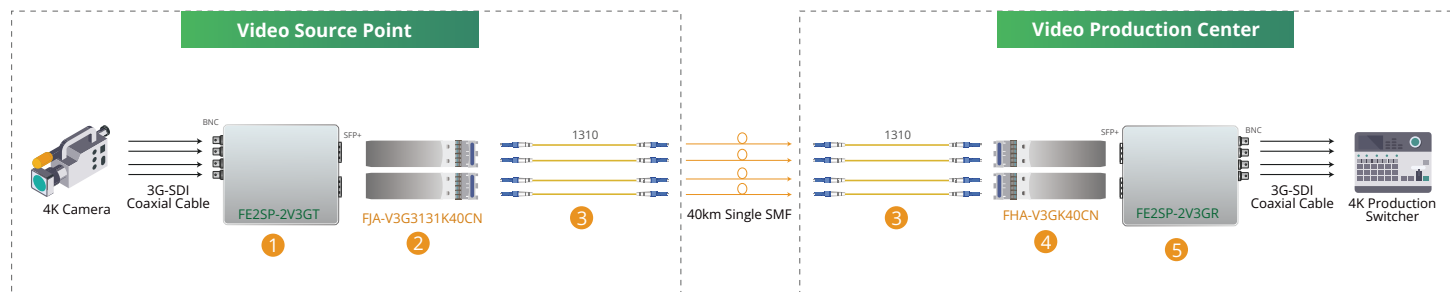
- ① FE2SP-2V12F 2x12G-SDI Optical Extender
- ② FBB-V1231K20Cx 12G-SDI SFP+ 1310nm 20km
- ③ Duplex LC SMF Cable

Dual 4K Bidirectional Transmission up to 20km over Simplex SMF



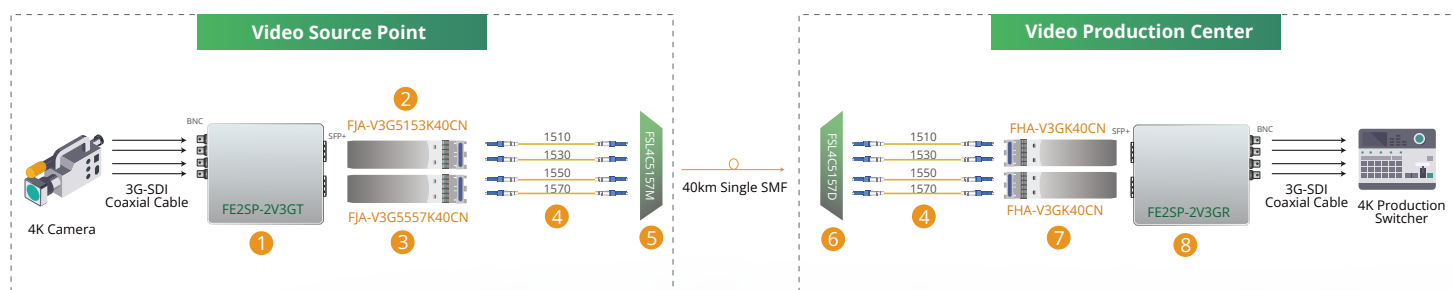
- ① FE2SP-2V12F 2x12G-SDI Optical Extender
- ② FCB-V122733K20Cx 12G-SDI SFP+ BiDi Tx-1270nm Rx-1310nm 20km
- ③ Simplex LC SMF Cable
- ④ FCB-V123327K20Cx 12G-SDI SFP+ BiDi Tx-1330nm Rx-1270nm 20km

4K Unidirectional Transmission up to 40km over 4x Single SMF



- ① FE2SP-2V3GT 4x3G-SDI Optical Extender Tx
- ② FJA-V3G3131K40CN 3G-SDI SFP+ 2Tx 1310nm 40km
- ③ Simplex LC SMF Cable
- ④ FJA-V3GK40CN 3G-SDI SFP+ 2Rx 40km
- ⑤ FE2SP-2V3GR 4x3G-SDI Optical Extender Rx

4K Unidirectional Transmission up to 40km over Single SMF



- ① FE2SP-2V3GT 4x3G-SDI Optical Extender Tx
- ② FJA-V3G5153K40CN 3G-SDI SFP+ 2Tx 1510nm&1530nm 40km
- ③ FJA-V3G5557K40CN 3G-SDI SFP+ 2Tx 1550nm&1570nm 40km
- ④ Simplex LC SMF Cable

- ⑤ FSL4C5157M 4CH CWDM MUX (1510-1570nm)
- ⑥ FSL4C5157D 4CH CWDM DEMUX (1510-1570nm)
- ⑦ FJA-V3GK40CN 3G-SDI SFP+ 2Rx 40km
- ⑧ FE2SP-2V3GR 4x3G-SDI Optical Extender Rx

SDI Optical Modules

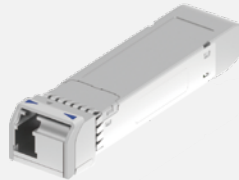
■ 12G-SDI SFP+

FFB-V1231K20Cx



12G-SDI SFP+ 1310nm 20km
(MSA, Non-MSA)

FGB-V1231K20Cx



12G-SDI SFP+ Tx 1310nm 20km
(MSA, Non-MSA)

FJB-V123131K20N



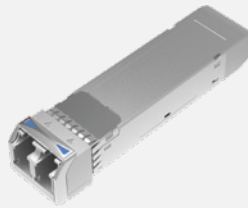
12G-SDI SFP+ 2Tx 1310nm 20km
(Non-MSA)

FFB-V12K20Cx



12G-SDI SFP+ Rx 20km
(MSA, Non-MSA)

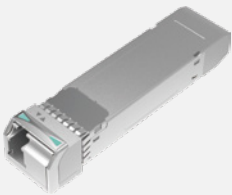
FHB-V12K20CN



12G-SDI SFP+ 2Rx 20km
(Non-MSA)

■ 12G-SDI SFP+ BiDi

FCB-V122733K20Cx



12G-SDI SFP+ BiDi Tx-1270nm
Rx-1310nm 20km (MSA, Non-MSA)

FCB-V123327K20Cx



12G-SDI SFP+ Tx-1310nm Rx-1270nm
20km (MSA, Non-MSA)

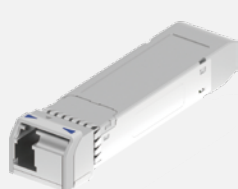
■ 12G-SDI SFP+ CWDM

FBB-V12CxxK10Cx



12G-SDI SFP+ CWDM 1270nm-1450nm
10km (MSA, Non-MSA)

FGB-V12CxxK10Cx



12G-SDI SFP+ CWDM Tx 1270nm-1450nm
10km (MSA, Non-MSA)

FJB-V12xxxxK10CN



12G-SDI SFP+ CWDM 2Tx 1270nm-1450nm
10km (Non-MSA)

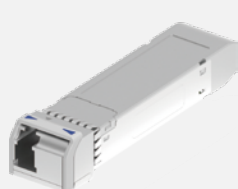
■ 3G-SDI SFP

FBA-V3GxxKxxCx



3G-SDI SFP 1310nm
2km/20km/40km/80km
and 1550nm 40km/80km (MSA)

FGB-V3GxxKxxCN



3G-SDI SFP Tx 1310nm
2km/20km/40km
and 1550nm 40km (Non-MSA)

FJA-V3GxxxxKxxCN



3G-SDI SFP 2Tx 1310nm
2km/20km/40km
and 1550nm 40km (Non-MSA)

FFA-V3GKxxCN



3G-SDI SFP Rx 2km/20km/40km
(Non-MSA)

FHA-V3GKxxCN



3G-SDI SFP 2Rx 2km/20km/40km
(Non-MSA)

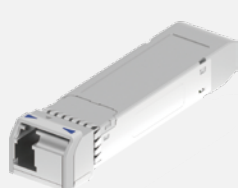
■ 3G-SDI SFP CWDM

FBA-V3GCxxKxxCM



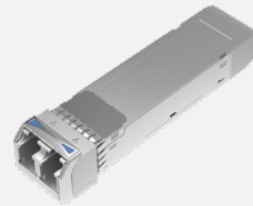
3G-SDI SFP CWDM 1270nm-1610nm
20km/40km/80km (MSA)

FGB-V3GCxxKxxCN



3G-SDI SFP CWDM Tx
1270nm-1610nm 20km/40km/80km
(Non-MSA)

FJA-V3GxxxxKxxCN



3G-SDI SFP CWDM 2Tx
1270nm-1610nm & 1270nm-1610nm
20km/40km (Non-MSA)

Parallel High-Speed Datacom Optical Transceivers

FEF-N40P4KxC



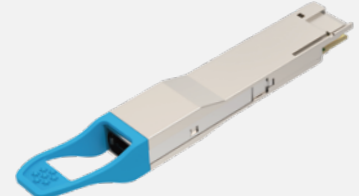
40G QSFP+ PSM4/XPSM4

FEG-112P4KxC



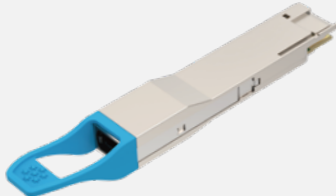
100G QSFP28 PSM4/XPSM4

FEL-200P8KxC



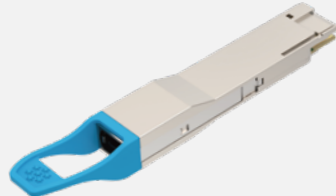
200G QSFP-DD PSM8/XPSM8

FEL-200P4KxC



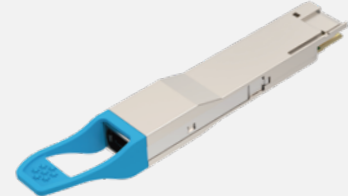
200G QSFP-DD PSM4/XPSM4

FEL-400P8KxC



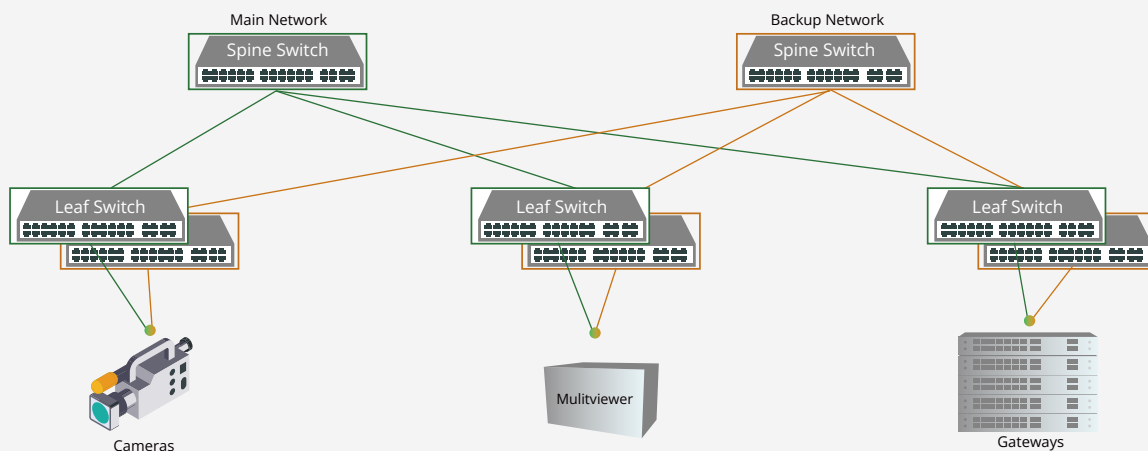
400G QSFP-DD PSM8/XPSM8

FEL-400P4KxC



400G QSFP-DD PSM4/PLR4

Full Leaf & Spine or Core & Aggregation



xWDM High-Speed Datacom Optical Transceivers

FBF-N40C4K10C



40G QSFP+ LR4

FBF-N40C4K40C



40G QSFP+ ER4

FBF-N40L4K80C



40G QSFP+ ZR4

FBG-100C4K10x



* 100G QSFP28 4WDM-10

FBG-112L4KxxC



100G QSFP28 LR4

FBG-112L4K40CL



100G QSFP28 ER4 Lite

FBG-112L4K80C

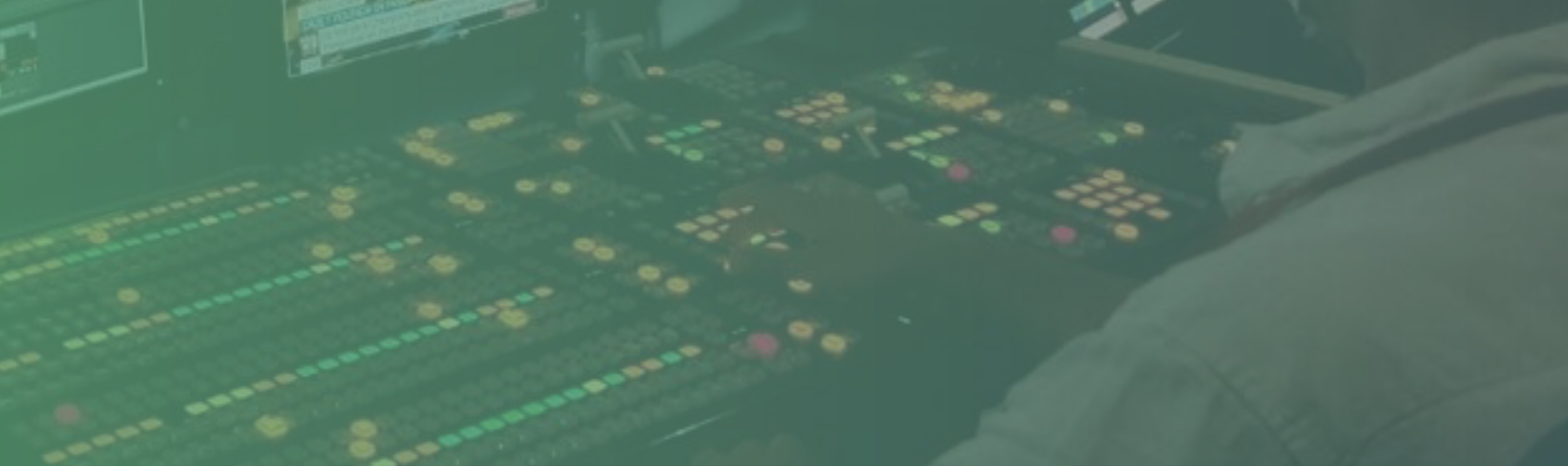


100G QSFP28 ZR4

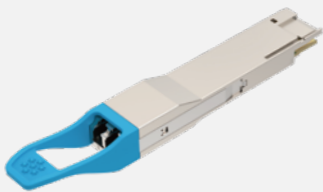
FEG-100DxxK80C



100G QSFP28 PAM4 DWDM



FBL-200L8K10C



200G QSFP-DD LR8

FBL-200L4K10C



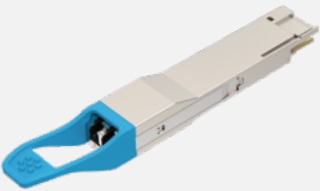
200G QSFP-DD LR4

FBL-200L4K40C



200G QSFP-DD ER4

FBL-400L8K10C



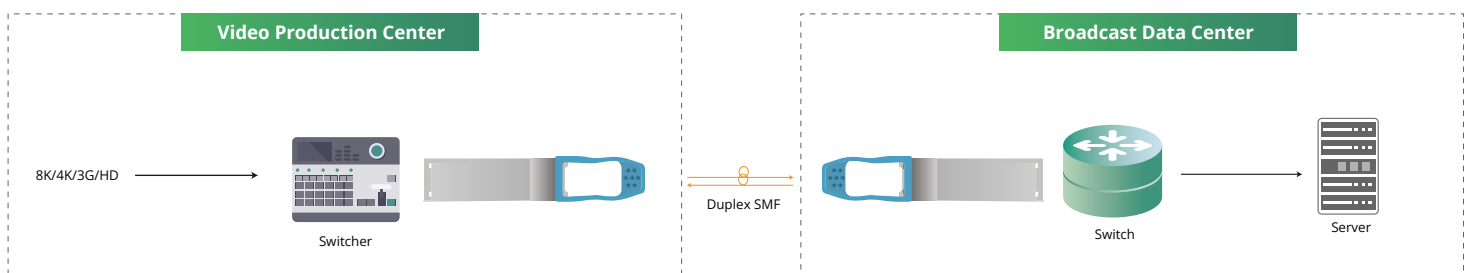
400G QSFP-DD LR8

FBL-400C4K10C



400G QSFP-DD CWD4

Bidirectional Transmission over Dual SMF



GPON & XG(S)-PON OLT Optical Transceivers

■ GPON OLT Transceivers



SFP GPON OLT Class B+

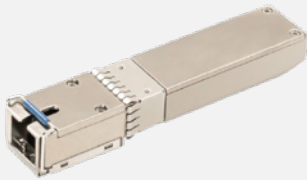


SFP GPON OLT Class C+

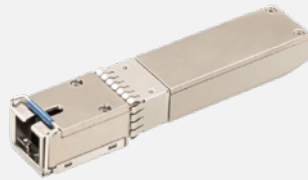


SFP GPON OLT Class D

■ XG-PON OLT Transceivers

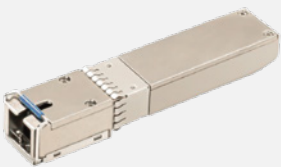


SFP+ XG-PON&GPON OLT Class C+



SFP+ XG-PON&GPON OLT Class D

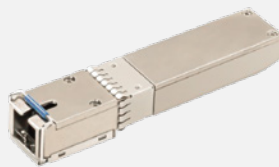
■ XGS-PON OLT Transceivers



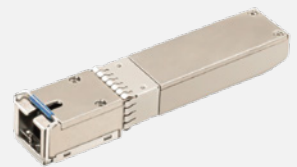
SFP+ XGS-PON OLT Class E1



SFP+ XGS-PON OLT Class E2

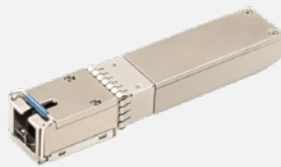


SFP+ XGS-PON OLT Class N1-E

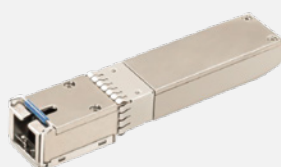


SFP+ XGS-PON OLT Class N2-E

■ Combo XGS-PON&GPON OLT Transceivers



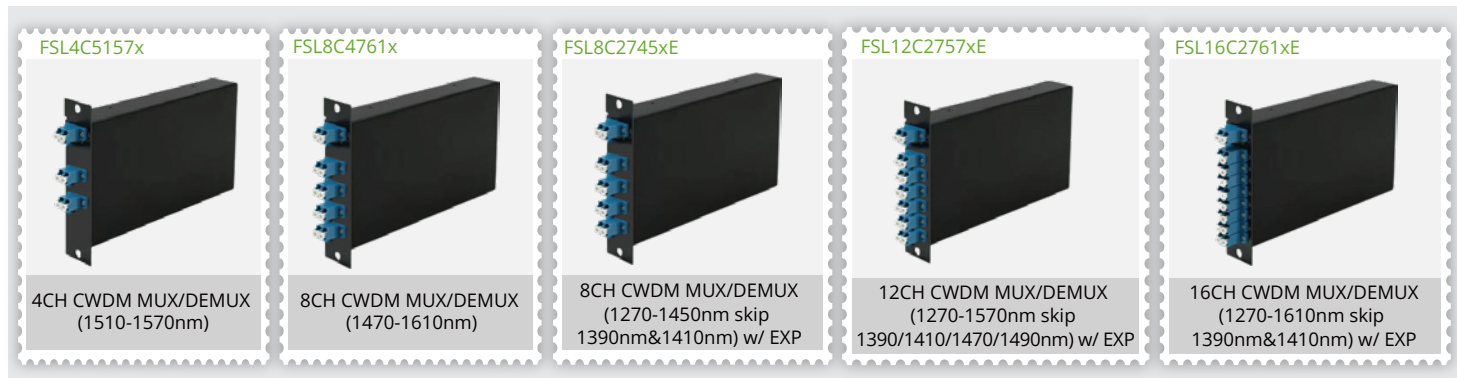
SFP+ XGS-PON&GPON OLT
Class C+



SFP+ XGS-PON&GPON OLT
Class D

Passive xWDM MUX/DEMUX

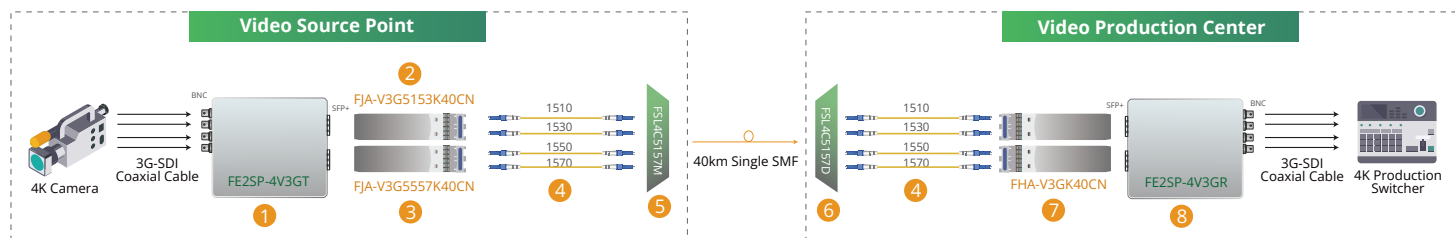
Passive CWDM MUX/DEMUX



Specifications

Parameters	TFF CWDM MUX/DEMUX				
CWDM Channel Number	2	4	8	16	18
Center Wavelength	1270nm to 1610nm				
Operating Wavelength	1260nm to 1620nm				
Channel Spacing	20nm				
Channel Passband @ 0.5dB	ITU $\pm$ 6.5nm				
Channel Insertion Loss	< 1.2dB	< 1.8dB	< 3.0dB	< 3.4dB	< 3.7dB
Link Insertion Loss (MUX+DEMUX)	< 2.1dB	< 2.7dB	< 3.9dB	< 4.6dB	< 5.3dB
Channel Uniformity	< 1.5dB				
Adjacent Channel Isolation	> 30dB				
Non-Adjacent Channel Isolation	> 45dB				
Directivity	> 50dB				
Return Loss	> 45dB				
Ripple	< 0.5dB				
Polarization Dependent Loss	< 0.2dB				
Polarization Mode Dispersion	< 0.1ps				
Maximum Optical Power	300mW				
Operating Temperature	-5°C to +75°C				
Storage Temperature	-40°C to +85°C				

Application



- ① FE2SP-4V3GT 4x3G-SDI Optical Extender Tx
- ② FJA-V3G5153K40CN 3G-SDI SFP CWDM 2Tx 1510nm&1530nm 40km
- ③ FJA-V3G5557K40CN 3G-SDI SFP CWDM 2Tx 1550nm&1570nm 40km
- ④ Simplex LC Patch Cable

- ⑤ FSL4C5157M 4CH CWDM MUX (1510-1570nm)
- ⑥ FSL4C5157D 4CH CWDM DEMUX (1510-1570nm)
- ⑦ FJA-V3GK40CN 3G-SDI SFP 2Rx 40km
- ⑧ FE2SP-4V3GR 4x3G-SDI Optical Extender Rx

DWDM MUX/DEMUX

FSR32D2859x

32CH DWDM MUX/DEMUX
(C28-C59)

FSR40D2059x

40CH DWDM MUX/DEMUX
(C20-C59)

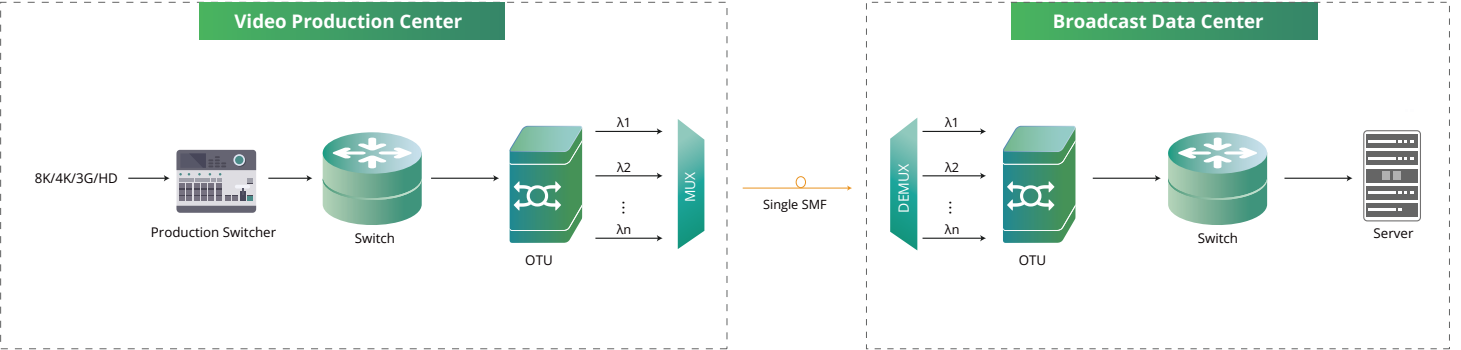
FSR48D1764x

48CH DWDM MUX/DEMUX
(C17-C64)

Specifications

Parameters	AAWG DWDM MUX/DEMUX			
Channel Spacing	100GHz			
Passband Type	Gaussian		Flat-top	
Grade	Typ	Min	Typ	Min
DWDM Channel Number	32/40/48			
Wavelength Accuracy	±0.05nm			
Passband @ 1dB	> 0.2nm		> 0.38nm	
Passband @ 3dB	> 0.4nm		> 0.58nm	
Channel Insertion Loss	< 4.0dB	< 3.5dB	< 6.5dB	< 5.0dB
Channel Uniformity	< 1.5dB			
Adjacent Channel Crosstalk	> 26dB		> 23dB	
Non-Adjacent Channel Crosstalk	> 26dB			
Total Crosstalk	> 21dB			
Return Loss	> 40dB			
Ripple	< 1.5dB		< 0.5dB	
Polarization Dependent Loss	< 0.7dB	< 0.6dB	< 0.5dB	< 0.4dB
Polarization Mode Dispersion	< 0.5ps			
Chromatic Dispersion	±20ps/nm			
Operating Temperature	-5°C to +75°C			
Storage Temperature	-40°C to +85°C			

Application



■ Combo PON WDM

FSA4WGX1N2V



GPON & XG-PON1 & NG-PON2 &
RF Video Combo PON WDM
(ABS Box)

FSL4WGX1N2V



GPON & XG-PON1 & NG-PON2 &
RF Video Combo PON WDM
(LGX Cassette)

FSR4WGX1N2V

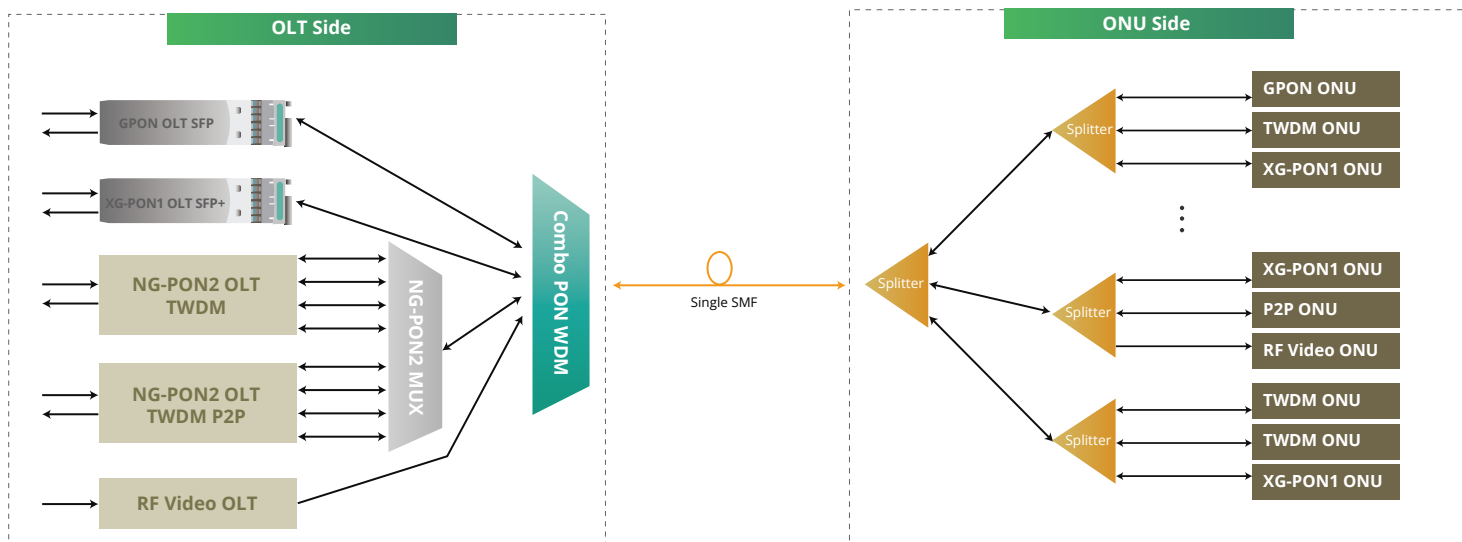


GPON & XG-PON1 & NG-PON2 &
RF Video Combo PON WDM
(1U Rack)

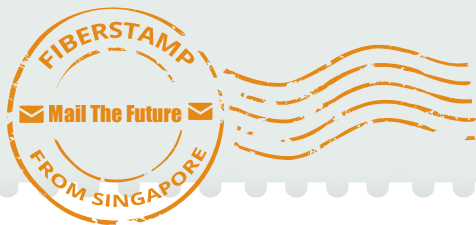
Specifications

Parameters	TFF Combo PON WDM			
Channel Type	GPON	XG-PON1	NG-PON2	RF Video
Uplink Operating Wavelength	1290-1330nm	1260-1280nm	1524-1544nm	1550-1560nm
Downlink Operating Wavelength	1480-1500nm	1575-1581nm	1596-1603nm	
Insertion Loss	< 1.0dB	< 1.2dB	< 2.0dB	< 1.5dB
Isolation	> 30dB			
Directivity	> 50dB			
Return Loss	> 45dB			
Ripple	< 0.5dB			
Polarization Dependent Loss	< 0.2dB			
Polarization Mode Dispersion	< 0.1ps			
Maximum Optical Power	300mW			
Operating Temperature	-5°C to +75°C			
Storage Temperature	-40°C to +85°C			

Application



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