



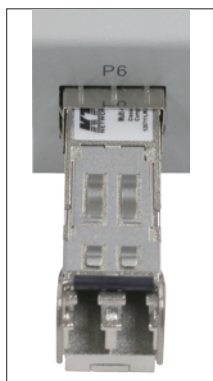
# SFP Fiber Transceivers



## SFP Fiber Transceivers



Plug in SFP Port



KTI provides a variety of optional Small Form-Factor Pluggable (SFP), which is also known as Mini-GBIC, fiber transceivers for the switches equipped with SFP connectors. The following information describes the specification of each SFP part, and it also indicates their applications in different KTI networking products.

### Ordering Information:

#### 10G SFP+ Fiber Transceivers:

Part No.	10G/GbE/FE	Connectors	Ref. Fiber Distance	Operating Temperature	DDM
SFP-10G-SR-A	10G	LC	MMF 300m (OM3 Fiber)	-10°C ~ 70°C	✓
SFP-10G-LR-A	10G	LC	SMF 10km	-10°C ~ 70°C	✓
SFP-10G-ER-A	10G	LC	SMF 40km	0°C ~ 70°C	✓
SFP-10G-ZR-A	10G	LC	SMF 80km	0°C ~ 70°C	✓

#### Gigabit SFP Fiber Transceivers:

Part No.	10G/GbE/FE	Connectors	Ref. Fiber Distance	Operating Temperature	DDM
SFP-GLM-A	GbE	LC	MMF 550m	0°C ~ 70°C	
SFP-GLMD-A	GbE	LC	MMF 550m	0°C ~ 70°C	✓
SFP-GLM-A -1310	GbE	LC	1km ~ 2km* <sup>1</sup> (MMF 62.5/125 μm)	0°C ~ 70°C	
SFP-GLMD-A -1310	GbE	LC	1km ~ 2km* <sup>1</sup> (MMF 62.5/125 μm)	0°C ~ 70°C	✓
SFP-GLS-10-A	GbE	LC	SMF 10km	0°C ~ 70°C	
SFP-GLSD-10-A	GbE	LC	SMF 10km	0°C ~ 70°C	✓
SFP-GLS-20-A	GbE	LC	SMF 20km	0°C ~ 70°C	
SFP-GLSD-20-A	GbE	LC	SMF 20km	0°C ~ 70°C	✓
SFP-GLS-30-A	GbE	LC	SMF 30km	0°C ~ 70°C	
SFP-GLSD-30-A	GbE	LC	SMF 30km	0°C ~ 70°C	✓
SFP-GLS-50-A	GbE	LC	SMF 50km	0°C ~ 70°C	
SFP-GLSD-50-A	GbE	LC	SMF 50km	0°C ~ 70°C	✓
SFP-GLS-70-A	GbE	LC	SMF 70km	0°C ~ 70°C	
SFP-GLSD-70-A	GbE	LC	SMF 70km	0°C ~ 70°C	✓
SFP-GLS-90-A	GbE	LC	SMF 90km	0°C ~ 70°C	
SFP-GLS-110-A	GbE	LC	SMF 110km	0°C ~ 70°C	
SFP-GLM-A-A	GbE	LC	MMF 550m	-20°C ~ 85°C	
SFP-GLMD-A-A	GbE	LC	MMF 550m	-20°C ~ 85°C	✓
SFP-GLM-A-A -1310	GbE	LC	1km ~ 2km* <sup>1</sup> (MMF 62.5/125 μm)	-40°C ~ 85°C	
SFP-GLMD-A-A -1310	GbE	LC	1km ~ 2km* <sup>1</sup> (MMF 62.5/125 μm)	-40°C ~ 85°C	✓
SFP-GLS-10A-A	GbE	LC	SMF 10km	-40°C ~ 85°C	
SFP-GLSD-10A-A	GbE	LC	SMF 10km	-40°C ~ 85°C	✓
SFP-GLS-20A-A	GbE	LC	SMF 20km	-40°C ~ 85°C	
SFP-GLSD-20A-A	GbE	LC	SMF 20km	-40°C ~ 85°C	✓
SFP-GLS-30A-A	GbE	LC	SMF 30km	-40°C ~ 85°C	

- \* GbE: Gigabit Ethernet
- \* FE: Fast Ethernet
- \* DDM: Digital Diagnostics Monitoring function
- \* 1: Corning fiber 2km tested



SFP-GLSD-30A-A	GbE	LC	SMF 30km	-40°C ~ 85°C	✓
SFP-GLS-50A-A	GbE	LC	SMF 50km	-40°C ~ 85°C	
SFP-GLSD-50A-A	GbE	LC	SMF 50km	-40°C ~ 85°C	✓
SFP-GLSD-70A-A	GbE	LC	SMF 70km	-40°C ~ 85°C	✓
SFP-GLS-110A-A	GbE	LC	SMF 110km	-40°C ~ 85°C	
SFP-GLSD-110A-A	GbE	LC	SMF 110km	-40°C ~ 85°C	✓

### WDM

SFP-GLS-W3510-A	GbE	LC	Bi-Di SMF 10km	0°C ~ 70°C	✓
SFP-GLS-W5310-A	GbE	LC	Bi-Di SMF 10km	0°C ~ 70°C	✓
SFP-GLSD-W3510-A	GbE	LC	Bi-Di SMF 10km	0°C ~ 70°C	
SFP-GLSD-W5310-A	GbE	LC	Bi-Di SMF 10km	0°C ~ 70°C	
SFP-GLS-W3520-A	GbE	LC	Bi-Di SMF 20km	0°C ~ 70°C	
SFP-GLS-W5320-A	GbE	LC	Bi-Di SMF 20km	0°C ~ 70°C	
SFP-GLS-W3540-A	GbE	LC	Bi-Di SMF 40km	0°C ~ 70°C	
SFP-GLS-W5340-A	GbE	LC	Bi-Di SMF 40km	0°C ~ 70°C	
SFP-GLS-W3560-A	GbE	LC	Bi-Di SMF 60km	0°C ~ 70°C	
SFP-GLS-W5360-A	GbE	LC	Bi-Di SMF 60km	0°C ~ 70°C	
SFP-GLS-W3520A-A	GbE	LC	Bi-Di SMF 20km	-40°C ~ 85°C	
SFP-GLS-W5320A-A	GbE	LC	Bi-Di SMF 20km	-40°C ~ 85°C	
SFP-GLS-W3540A-A	GbE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	✓
SFP-GLS-W5340A-A	GbE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	✓
SFP-GLSD-W3540A-A	GbE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	
SFP-GLSD-W5340A-A	GbE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	

### CWDM

SFP-GLS-CxxW50-A	GbE	LC	CWDM SMF 50km	0°C ~ 70°C	
SFP-GLS-CxxW80-A	GbE	LC	CWDM SMF 80km	0°C ~ 70°C	

### BX10

SFP-GLS-BX10D-A	GbE	LC	Bi-Di SMF 10km	0°C ~ 70°C	
SFP-GLS-BX10U-A	GbE	LC	Bi-Di SMF 10km	0°C ~ 70°C	
SFP-GSS-BX10D-A	GbE	SC	Bi-Di SMF 10km	0°C ~ 70°C	
SFP-GSS-BX10U-A	GbE	SC	Bi-Di SMF 10km	0°C ~ 70°C	

### Fast Ethernet SFP Fiber Transceivers:

Part No.	10G/GbE/FE	Connectors	Ref. Fiber Distance	Operating Temperature	DDM
SFP-FC-M-A	FE	LC	MMF 2km	-10°C ~ 70°C	
SFP-FC-M5-A	FE	LC	MMF 5km	0°C ~ 70°C	
SFP-FC-S30-A	FE	LC	SMF 30km	0°C ~ 70°C	
SFP-FCD-S30-A	FE	LC	SMF 30km	0°C ~ 70°C	✓
SFP-FCD-S30-A2	FE	LC	SMF 30km	0°C ~ 70°C	✓
SFP-FC-S60-A	FE	LC	SMF 60km	0°C ~ 70°C	
SFP-FC-S100-A	FE	LC	SMF 100km	0°C ~ 70°C	
SFP-FCD-S100-A	FE	LC	SMF 100km	0°C ~ 70°C	✓



SFP-GLSD-10A-A	1310nm	-9 ~ -3	-21	-3
SFP-GLS-20A-A	1310nm	-8 ~ -2	-23	-1
SFP-GLSD-20A-A	1310nm	-8 ~ -3	-23	-3
SFP-GLS-30A-A	1310nm	-4 ~ 1	-24	-3
SFP-GLSD-30A-A	1310nm	-4 ~ 3	-24	-1
SFP-GLS-50A-A	1550nm	-4 ~ 1	-24	-3
SFP-GLSD-50A-A	1550nm	-4 ~ 1	-24	-1
SFP-GLSD-70A-A	1550nm	0 ~ 5	-24	-1
SFP-GLS-110A-A	1550nm	0 ~ 5	-30	-9
SFP-GLSD-110A-A	1550nm	0 ~ 5	-30	-8

**WDM**

SFP-GLS-W3510-A	Tx: 1310nm Rx: 1550nm	-9 ~ -3	-21	-1
SFP-GLS-W5310-A	Tx: 1550nm Rx: 1310nm	-9 ~ -3	-21	-1
SFP-GLSD-W3510-A	Tx: 1310nm Rx: 1550nm	-9 ~ -3	-21	-1
SFP-GLSD-W5310-A	Tx: 1550nm Rx: 1310nm	-9 ~ -3	-21	-1
SFP-GLS-W3520-A	Tx: 1310nm Rx: 1550nm	-8 ~ -2	-23	-1
SFP-GLS-W5320-A	Tx: 1550nm Rx: 1310nm	-8 ~ -2	-23	-1
SFP-GLS-W3540-A	Tx: 1310nm Rx: 1550nm	-3 ~ 2	-23	-1
SFP-GLS-W5340-A	Tx: 1550nm Rx: 1310nm	-3 ~ 2	-23	-1
SFP-GLS-W3560-A	Tx: 1310nm Rx: 1550nm	0 ~ 5	-24	-1
SFP-GLS-W5360-A	Tx: 1550nm Rx: 1310nm	-2 ~ 4	-25	-1
SFP-GLS-W3520A-A	Tx: 1310nm Rx: 1550nm	-8 ~ -2	-23	-1
SFP-GLS-W5320A-A	Tx: 1550nm Rx: 1310nm	-8 ~ -2	-23	-1
SFP-GLS-W3540A-A	Tx: 1310nm Rx: 1550nm	-3 ~ 2	-23	-1
SFP-GLS-W5340A-A	Tx: 1550nm Rx: 1310nm	-3 ~ 2	-23	-1
SFP-GLSD-W3540A-A	Tx: 1310nm Rx: 1550nm	-3 ~ 2	-23	-1
SFP-GLSD-W5340A-A	Tx: 1550nm Rx: 1310nm	-3 ~ 2	-23	-1

**CWDM**

SFP-GLS-CxxW50-A	Tx: 1xx0nm (1470-1610nm)	0 ~ 5	-24	-1
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SFP-FC-M-A-A	FE	LC	MMF 2km	-40°C ~ 85°C
SFP-FC-S10A-AV	FE	LC	SMF 10km	-10°C ~ 85°C
SFP-FC-S30A-A	FE	LC	SMF 30km	-40°C ~ 85°C

#### WDM

SFP-FC-W3520-A	FE	LC	Bi-Di SMF 20km	0°C ~ 70°C	
SFP-FC-W5320-A	FE	LC	Bi-Di SMF 20km	0°C ~ 70°C	
SFP-FC-W3540A-A	FE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	
SFP-FC-W5340A-A	FE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	
SFP-FCD-W3540A-A	FE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	✓
SFP-FCD-W5340A-A	FE	LC	Bi-Di SMF 40km	-40°C ~ 85°C	✓

#### BX10

SFP-FSC-BX10D-A	FE	SC	Bi-Di SMF 10km	0°C ~ 70°C
SFP-FSC-BX10U-A	FE	SC	Bi-Di SMF 10km	0°C ~ 70°C

### Optical Specifications:

#### 10G SFP+ Fiber Transceivers:

Part No.	Wavelength	Tx Power	Rx Sens.	Rx Max.
SFP-10G-SR-A	850nm	-7.1 ~ -1	-9.9	-1
SFP-10G-LR-A	1310nm	-6 ~ 0.5	-14.4	0.5
SFP-10G-ER-A	1550nm	-4.7 ~ 4	-15.8	-1
SFP-10G-ZR-A	1550nm	0 ~ 4	-23	-7

#### Gigabit SFP Fiber Transceivers:

Part No.	Wavelength	Tx Power	Rx Sens.	Rx Max.
SFP-GLM-A	850nm	-9.5 ~ -4	-18	0
SFP-GLMD-A	850nm	-9.5 ~ -4	-18	0
SFP-GLM-A-1310	1310nm	-9 ~ -1	-19	-1
SFP-GLMD-A-1310	1310nm	-9 ~ -1	-19	-1
SFP-GLS-10-A	1310nm	-9.5 ~ -3	-20	-3
SFP-GLSD-10-A	1310nm	-9 ~ -3	-21	-3
SFP-GLS-20-A	1310nm	-8 ~ -2	-23	-1
SFP-GLSD-20-A	1310nm	-8 ~ -3	-23	-3
SFP-GLS-30-A	1310nm	-4 ~ 1	-24	-3
SFP-GLSD-30-A	1310nm	-4 ~ 3	-24	-1
SFP-GLS-50-A	1550nm	-4 ~ 1	-24	-3
SFP-GLSD-50-A	1550nm	-4 ~ 1	-24	-1
SFP-GLS-70-A	1550nm	0 ~ 5	-24	-3
SFP-GLSD-70-A	1550nm	0 ~ 5	-24	-1
SFP-GLS-90-A	1550nm	0 ~ 5	-27	-1
SFP-GLS-110-A	1550nm	0 ~ 5	-30	-8
SFP-GLM-A-A	850nm	-9.5 ~ -4	-18	0
SFP-GLMD-A-A	850nm	-9.5 ~ -4	-18	0
SFP-GLM-A-A-1310	1310nm	-9 ~ -1	-19	-1
SFP-GLMD-A-A-1310	1310nm	-9 ~ -1	-19	-1
SFP-GLS-10A-A	1310nm	-9.5 ~ -3	-20	-3



## Applications:

Model	Product	SFP Ports
KGS-2422-B	GbE Switch	GbE, FE
KGS-2423	GbE Switch	GbE (DDM)
KGS-810F-B	GbE Switch	GbE (DDM)
KGS-510F-D	GbE Switch	GbE, FE (DDM)
KGC-0500	GbE Switch	GbE, FE
KGS-1060	GbE Switch	GbE, FE (DDM)
KGS-1064	GbE Switch	GbE, FE (DDM)
KGS-1260	GbE Switch	GbE, FE (DDM)
KGD-600-C	GbE Switch	GbE, FE (DDM)
KGS-2461	GbE Switch	GbE, FE (DDM)
KFS-2621	FE Switch	GbE
KGS-0820	FE Switch	GbE, FE (DDM)
KSD-541-HP	FE Switch	FE (Industrial)
KGC-300	GbE MC	GbE
KGC-310M-C	GbE MC	GbE, FE
KGC-320-HP	GbE MC	GbE, FE
KGC-352	GbE MC	GbE
KGC-200	GbE MC	GbE, FE
KCD-400	GbE MC	GbE (Industrial)
KGC-460	GbE MC	GbE, FE (Industrial, DDM)
KGC-260	GbE MC	GbE, FE (Industrial, DDM)
KGC-240	GbE MC	GbE, FE (Industrial, DDM)
KGC-311	MC	GbE, FE
KG-500F-B	GbE NIC	GbE

MC: media Converter  
NIC: Network interface card

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SFP-GLS-CxxW80-A	Tx: 1xx0nm (1470-1610nm)	0 ~ 5	-30	-8
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### BX10

SFP-GLS-BX10D-A	Tx: 1490nm Rx: 1310nm	-9 ~ -3	-21	-1
SFP-GLS-BX10U-A	Tx: 1310nm Rx: 1490nm	-9 ~ -3	-21	-1
SFP-GSS-BX10D-A	Tx: 1490nm Rx: 1310nm	-9 ~ -3	-21	-1
SFP-GSS-BX10U-A	Tx: 1310nm Rx: 1490nm	-9 ~ -3	-21	-1

### Fast Ethernet SFP Fiber Transceivers:

Part No.	Wavelength	Tx Power	Rx Sens.	Rx Max.
SFP-FC-M-A	1310nm	-20 ~ -14	-31	-8
SFP-FC-M5-A	1310nm	-9 ~ 0	-30	0
SFP-FC-S30-A	1310nm	-15 ~ -8	-34	0
SFP-FCD-S30-A	1310nm	-15 ~ -8	-32	0
SFP-FCD-S30-A2	1310nm	-15 ~ -8	-34	0
SFP-FC-S60-A	1310nm	-5 ~ 0	-35	0
SFP-FC-S100-A	1550nm	-5 ~ 0	-35	0
SFP-FCD-S100-A	1550nm	-5 ~ 0	-35	0
SFP-FC-M-A-A	1310nm	-20 ~ -14	-31	-8
SFP-FC-S10A-AV	1310nm	-15 ~ -8	-23	-8
SFP-FC-S30A-A	1310nm	-15 ~ -8	-34	0

### WDM

SFP-FC-W3520-A	Tx: 1310nm Rx: 1550nm	-14 ~ -8	-32	0
SFP-FC-W5320-A	Tx: 1550nm Rx: 1310nm	-14 ~ -8	-32	0
SFP-FC-W3540A-A	Tx: 1310nm Rx: 1550nm	-8 ~ 0	-34	0
SFP-FC-W5340A-A	Tx: 1550nm Rx: 1310nm	-8 ~ 0	-34	0
SFP-FCD-W3540A-A	Tx: 1310nm Rx: 1550nm	-8 ~ 0	-34	0
SFP-FCD-W5340A-A	Tx: 1550nm Rx: 1310nm	-8 ~ 0	-34	0

### BX10

SFP-FSC-BX10D-A	Tx: 1550nm Rx: 1310nm	-14 ~ -8	-32	0
SFP-FSC-BX10U-A	Tx: 1310nm Rx: 1550nm	-14 ~ -8	-32	0