



# SFP Fiber Transceivers



## SFP Fiber Transceivers

Plug in SFP Port



- \* GbE: Gigabit Ethernet
- \* FE: Fast Ethernet
- \* DDM: Digital Diagnostics Monitoring function

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 Informations:

#### Gigabit SFP Fiber Transceivers:

Part No.	GbE/FE	Connectors	Ref. Fiber Distance	Operating Temperature	DDM
<b>Extended</b>					
SFP-GLM-A	GbE	LC	MMF 550m	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	
<b>Industrial</b>					
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-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-50A-A	GbE	LC	SMF 50km	-40°C ~ 85°C	✓
SFP-GLS-110A-A	GbE	LC	SMF 10km	-20°C ~ 85°C	
<b>WDM</b>					
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

**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.	GbE/FE	Connectors	Ref. Fiber Distance	Operating Temperature	DDM
<b>Extended</b>					
SFP-FC-M-A	FE	LC	MMF 2km	-10°C ~ 70°C	
SFP-FC-S30-A	FE	LC	SMF 30km	0°C ~ 70°C	
SFP-FC-D-S30-A	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	
<b>Industrial</b>					
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	
<b>WDM</b>					
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	
<b>BX10</b>					
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:

### Gigabit SFP Fiber Transceivers:

Part No.	Wavelength	Tx Power	Rx Sens.	Rx Max.
<b>Extended</b>				
SFP-GLM-A	850nm	-9.5 ~ -4	-18	0
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
<b>Industrial</b>				
SFP-GLM-A-A	850nm	-9.5 ~ -4	-18	0
SFP-GLMD-A-A	850nm	-9.5 ~ -4	-18	0
SFP-GLS-10A-A	1310nm	-9.5 ~ -3	-20	-3
SFP-GLSD-10A-A	1310nm	-9 ~ -3	-21	-3
SFP-GLS-20A-A	1310nm	-8 ~ -2	-23	-1
SFP-GLSD-50A-A	1550nm	-4 ~ 1	-24	-1
SFP-GLS-110A-A	1550nm	0 ~ 5	-30	-8
<b>WDM</b>				
SFP-GLS-W3510-A	Tx: 1310nm Rx: 1550nm	-9 ~ -3	-21	-3
SFP-GLS-W5310-A	Tx: 1550nm Rx: 1310nm	-9 ~ -3	-21	-3
SFP-GLSD-W3510-A	Tx: 1310nm Rx: 1550nm	-9 ~ -3	-21	-3
SFP-GLSD-W5310-A	Tx: 1550nm Rx: 1310nm	-9 ~ -3	-21	-3
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: 1330nm	-3 ~ 2	-23	-1



## Applications:

Model	Product	SFP Ports
KGS-2421	GbE Switch	GbE
KGS-1620	GbE Switch	GbE
KGS-810F	GbE Switch	GbE (DDM)
KGS-612F	GbE Switch	GbE, FE (DDM)
KGS-510F Ver.B	GbE Switch	GbE
KGD-802	GbE Switch	GbE (Industrial)
KGD-600	GbE Switch	GbE (Industrial)
KFS-2621	FE Switch	GbE
KGS-0820	FE Switch	GbE, FE
KSD-541	FE Switch	FE (Industrial)
KGC-300	GbE MC	GbE
KGC-310M	GbE MC	GbE
KGC-352	GbE MC	GbE
KCD-400	GbE MC	GbE (Industrial)
KGC-311	MC	GbE, FE
KG-500F	GbE NIC	GbE

MC: media Converter  
NIC: Network interface card

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SFP-GLS-W3560-A	Tx: 1310nm Rx: 1550nm	0 ~ 5	-24	-1
SFP-GLS-W5360-A	Tx: 1550nm Rx: 1310nm	-2 ~ 4	-25	-1

### CWDM

SFP-GLS-CxxW50-A	Tx: 1xx0nm (1470~1610nm)	0 ~ 5	-24	-1
SFP-GLS-CxxW80-A	Tx: 1xx0nm (1470~1610nm)	0 ~ 5	-30	-8

### 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.
<b>Extended</b>				
SFP-FC-M-A	1310nm	-20 ~ -14	-31	-8
SFP-FC-S30-A	1310nm	-15 ~ -8	-34	0
SFP-FC-D-S30-A	1310nm	-15 ~ -8	-32	0
SFP-FC-S60-A	1310nm	-5 ~ 0	-35	0
SFP-FC-S100-A	1550nm	-5 ~ 0	-35	0
<b>Industrial</b>				
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
<b>WDM</b>				
SFP-FC-W3520-A	Tx: 1310nm Rx: 1550nm	-14 ~ -8	-32	0
SFP-FC-W5320-A	Tx: 1550nm Rx: 1310nm	-14 ~ -8	-32	0
<b>BX10</b>				
SFP-FSC-BX10D-A	Tx: 1550nm Rx: 1310nm	-14 ~ -8	-32	0
SFP-FSC-BX10U-A	Tx: 1310nm Rx: 1550nm	-14 ~ -8	-32	0