## Stride Industrial Ethernet Fiber Transceivers Fast Ethernet

Description:

STRIDÉ 100Mb Small Form Factor Pluggable (SFP) transceiver modules (Transmit/Receive). Hot Swappable. 1310nm wavelength. Data transmission up to 4km multimode fiber (SFP-4K-FMF) or 30km singlemode fiber (SFP-30K-FSF). LC duplex receptacle, SFP Multi-Source Agreement compliant.



**NOTE:** Port speed settings for the Stride switch must be manually set to 100 Mbps.

Part Number	Mode	Light Source	Max Trans. Distance	Price
SFP-4K-FMF	Multi-mode		4km	\$0e47:
SFP-30K-FSF	Single- mode	1310 nm, FP	30 km	\$0e45:

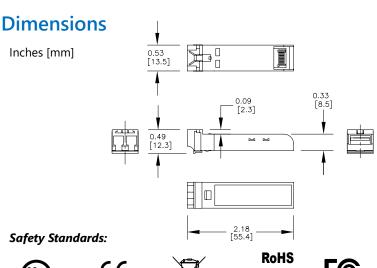
Note: Use only Gigabit speed SFPs with SE2-SW10UG-2P-T

Transmitter Optical characteristics					
Parameter (unit)		Minimum	Typical	Maximum	
Output optical	SFP-4K-FMF	-9		0	
power (dBM)	SFP-30K-FSF	-15		-8	
Extinction	SFP-4K-FMF	8.2			
Ratio (dB)	SFP-30K-FSF	8.2			
Center	SFP-4K-FMF	4004	4040	4000	
Wavelength (nm)	SFP-30K-FSF	1261	1310	1360	
Spectral width -	SFP-4K-FMF			7	
RMS (nm)	SFP-30K-FSF			4	
Rise / Fall Time -	SFP-4K-FMF			0	
10% - 90% (ns)	SFP-30K-FSF			2	

Stride	

General Specifications			
Connector Type		Type LC connector with bail latch	
Operating Temperature range		-40 to +85 °C [-40 to +185 °F]	
Storage tempe	rature range	-40 to +85 °C [-40 to +185 °F]	
Humidity (non-	-condensing)	5 to 95% RH	
Link Speed		Gigabit Ethernet	
Laser Type		FP laser diode (Class 1 laser safety standard IEC 60825 compliant)	
Media	SFP-4K-FMF	Multi-mode Fiber	
weuia	SFP-30K-FSF	Single-mode Fiber	
Fiber	SFP-4K-FMF	62.5 / 125 μm	
ribei	SFP-30K-FSF	9 / 125 μm	
Code	SFP-4K-FMF	FX5	
Code	SFP-30K-FSF	100LX	
Distance	SFP-4K-FMF	4km	
Distance	SFP-30K-FSF	30 km	
	SFP-4K-FMF	125Mbps IEEE802.3u 100BASE-FX compliant 125Mbps FDDI ISO/IEC 9314-1 compliant	
Compliances SFP-30K-FSI		125Mbps IEEE802.3ah 100BASE-LX10 compliant 155Mbps ITU-T G957 STM S-1.1/L-1.1 compliant 155Mbps SONET OC-3 IR-1/LR-1 compliant	
Inputs / Outpu	ts	AC-coupled differential inputs and outputs	

Receiver Optical characteristics					
Parameter (unit)		Minimum	Maximum		
Consississis (dPm)	SFP-4K-FMF		-30		
Sensitivity (dBm)	SFP-30K-FSF		-34		
Operating	SFP-4K-FMF	1260	1620		
Wavelength (nm)	SFP-30K-FSF	1200	1020		
Loss of Signal -	SFP-4K-FMF		-30		
Deasserted (dBm)	SFP-30K-FSF		-35		
Loss of Signal -	SFP-4K-FMF	45			
Asserted (dBm)					
Loss of Signal -	SFP-4K-FMF	0.5			
Hysteresis (dB)	SFP-30K-FSF	0.5			



European Directives







Stride Industrial Ethernet Fiber Transceivers
Gigabit Ethernet

### **Description:**

STRIDE Gigabit (1.25GB) Small Form Factor Pluggable (SFP) transceiver module (Transmit/Receive). Hot Swappable. Short or long wavelength of 850nm or 1310nm, dependant on model. Supports data transmission up to 550 meters, 2km, 10 km, or 30 km on a single-mode or multi-mode fiber, dependant on model. LC duplex receptacle, SFP Multi-Source Agreement compliant.

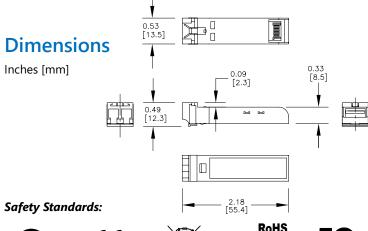
Part Number	Mode	Light Source	Max Trans. Distance	Price
SFP-500-GMF	Multi-mode	850 nm, VCSEL	550m	\$0e48:
SFP-2K-GMF	Multi-mode	1210 FD	2km	\$0e44:
SFP-10K-GSF	Single-	1310 nm, FP	10 km	\$0e43:
SFP-30K-GSF	mode	1310 nm, DFB	30 km	\$0e46:

Note: Use only Gigabit speed SFPs with SE2-SW10UG-2P-T

Transmitter Optical characteristics					
Parameter (unit)		Minimum	Typical	Maximum	
	SFP-500-GMF	-9.5		-4	
Output optical	SFP-2K-GMF	-9		-1	
power (dBM)	SFP-10K-GSF	-9.5		-3	
. ,	SFP-30K-GSF	-2	1	3	
	SFP-500-GMF				
Extinction Ratio	SFP-2K-GMF	9			
(dB)	SFP-10K-GSF	9			
. ′	SFP-30K-GSF				
	SFP-500-GMF	830	850	860	
Center Wavelength	SFP-2K-GMF	1270		1355	
(nm)	SFP-10K-GSF	1285	1310	1343	
,	SFP-30K-GSF	1270		1355	
	SFP-500-GMF			0.85	
Spectral width -	SFP-2K-GMF			4	
RMS (nm)	SFP-10K-GSF			2.8	
, ,	SFP-30K-GSF			1	
	SFP-500-GMF				
Rise / Fall Time -	SFP-2K-GMF			260	
20% - 80% (ps)	SFP-10K-GSF			200	
	SFP-30K-GSF				

Receiver Optical characteristics				
Parameter (unit)		Minimum	Maximum	
,	SFP-500-GMF		-17	
Compiting (dDms)	SFP-2K-GMF		-19	
Sensitivity (dBm)	SFP-10K-GSF		-20	
	SFP-30K-GSF		-23	
	SFP-500-GMF	770	860	
Operating	SFP-2K-GMF	1260	1610	
Wavelength (nm)	SFP-10K-GSF	1270	1355	
<b>1</b>	SFP-30K-GSF	1270	1580	
	SFP-500-GMF			
Detum Less (dD)	SFP-2K-GMF	12		
Return Loss (dB)	SFP-10K-GSF			
	SFP-30K-GSF			
	SFP-500-GMF		-17.5	
Loss of Signal -	SFP-2K-GMF		-19	
Deasserted (dBm)	SFP-10K-GSF		-20	
` ′	SFP-30K-GSF		-23	
	SFP-500-GMF			
Loss of Signal -	SFP-2K-GMF	-35		
Asserted (dBm)	SFP-10K-GSF	-33		
, ,	SFP-30K-GSF			
	SFP-500-GMF			
Loss of Signal -	SFP-2K-GMF	0.5		
Hysteresis (dB)	SFP-10K-GSF	0.5		
SFP-30K-GSF				

General Specifications			
Connector Typ	e	Type LC connector with bail latch	
Operating Tem	perature range	-40 to +85 °C [-40 to +185 °F]	
Storage temperature range		-40 to +85 °C [-40 to +185 °F]	
Humidity (non-condensing)		5 to 95% RH	
Link Speed		Gigabit Ethernet	
	SFP-500-GMF	VCSEL laser diode (Class 1 laser safety standard IEC 60825 compliant)	
İ	SFP-2K-GMF	FP laser diode	
Laser Type	SFP-10K-GSF	(Class 1 laser safety standard IEC 60825 compliant)	
	SFP-30K-GSF	DFB laser diode (Class 1 laser safety standard IEC 60825 compliant)	
	SFP-500-GMF		
	SFP-2K-GMF	Multi-mode Fiber	
Media	SFP-10K-GSF		
	SFP-30K-GSF	Single-mode Fiber	
	SFP-500-GMF	50 / 405	
	SFP-2K-GMF	50 / 125 μm and 62.5 / 125 μm	
Fiber	SFP-10K-GSF	0 / 105	
	SFP-30K-GSF	9 / 125 μm	
	SFP-500-GMF	SX	
Code	SFP-2K-GMF	SX2	
Code	SFP-10K-GSF	LX	
	SFP-30K-GSF	lhx	
	SFP-500-GMF	550m	
D:-4	SFP-2K-GMF	2km	
Distance	SFP-10K-GSF	10 km	
	SFP-30K-GSF	40 km	
	SFP-500-GMF	1.0625Gbps Fiber Channel FC-PI 100-M5-SN-I compliant 1.0625Gbps Fiber Channel FC-PI 100-M6-SN-I compliant 1.25Gbps IEEE 802.3z 1000BASE-SX compliant 1.25Gbps IEEE 802.3ah 1000BASE-SX compliant	
Compliances	SFP-2K-GMF	IEEE 802.3 1000BASE-SX+ compliant	
	SFP-10K-GSF	1.0625Gbps Fiber Channel FC-PI 100-SM-LC-L compliant 1.25Gbps IEEE 802.3 1000BASE-LX compliant	
	SFP-30K-GSF	1.25Gbps Gigabit Ethernet compliant	
Inputs / Outpu	ts	AC-coupled differential inputs and outputs	



CUL)US Electrical Safety **C E European Directives** 

WEEE Compliant

RoHS

FC US Emissions

# Stride Industrial Ethernet Copper Transceivers Gigabit Ethernet

#### **Description:**

The STRIDE <u>SFP-1GC-T</u> is a hot-pluggable Small Form Factor Pluggable (SFP) transceiver. It has an RJ-45 connector, and can send and receive data at 1.25 Gbps up to 100m distance over 4-pair Cat5e/6a cable. The module is compliant with the SFP Multi-Source Agreement (MSA) and IEEE802.3:2002.



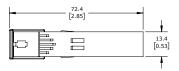
Part Number	Connector Type	Link Speed	Price
SFP-1GC-T	RJ-45	Gigabit Ethernet	\$682p:

RJ45 Ports		
Ethernet Compliance	IEEE 802.3ab (1000Base-T) Gigabit Ethernet	
Auto-Crossover	Yes, allows use of straight-through or crossover cables	
Auto-Sensing Operation	Yes, full and half duplex	
Port Speed	1000Base-T only	
Cable Requirements	4-pair UTP/STP Cat.5e/6a cable EIA/TIA-568 100-ohm	
Max. Cable Distance	100m [328ft]	

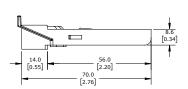
General Specifications		
Operating Temperature Range	-40 to +85 °C [-40 to +185 °F]	
Storage Temperature Range	-40 to +85 °C [-40 to +185 °F]	
Humidity (non-condensing)	5 to 95% RH	
Link Speed	Gigabit Ethernet	
Compliances	SFP Multi-Source Agreement (MSA)	

#### **Dimensions**

Inches [mm]







#### **Safety Standards:**







