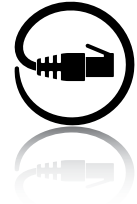# Stride® SE3 Series Unmanaged Industrial Ethernet Switches

SE3 Series Non-PoE DIN Rail Mounted

Features

- Wide temp range option
- DIN rail and panel mounting
- 12, 24 or 48 VDC redundant input
- GbE models
- Haz Loc
- IP30 metal cases
- 5-year warranty

RoHS
☑
RoHS Compliant

Strided SE3 Non-PoE DIN Rail Mounted Unmanaged Models							
Part Number	Price	RJ45 10/100	RJ45 GbE	Fiber	Input power (max.)	Operating Temp	Agency Approvals
SE3-SW5U	$78.00	5	–	–	1.2 W	-10 to +65°C [14 to 149°F]	See General Specifications Table for each model's approvals
SE3-SW5U-T	$105.00	5	–	–	1.2 W	-40 to +75°C [-40 to 167°F]	
SE3-SW8U	$121.00	8	–	–	2.2 W	-10 to +65°C [14 to 149°F]	
SE3-SW8U-T	$136.00	8	–	–	2.2 W	-40 to +75°C [-40 to 167°F]	
SE3-SW5UG-T	$170.00	–	5	–	6.6 W		
SE3-SW8UG-T	$229.00	–	8	–	9.2 W		
SE3-SW5U-1C1-T	$167.00	4	–	1 SC	5W		
SE3-SW5U-1T1-T	$167.00	4	–	1 ST	5W		
SE3-SW6U-2C1-T	$219.00	4	–	2 SC	6W		
SE3-SW6U-2T1-T	$219.00	4	–	2 ST	6W		
SE3-SW7U-2P-T	$219.00	5	–	2 SFP*	8W		
SE3-SW5UG-1P-T	$199.00	–	4	1 SFP*	5.6 W		
SE3-SW10UG-2P-T	$329.00	–	8	2 SFP*	12W		
SE3-SW16UG-4P-T	$499.00	–	12	4 SFP*	15.4 W		

* Optional SFP modules sold separately.

Stride® SE3 Series Unmanaged Industrial Ethernet Switches

SE3 Series Non-PoE DIN Rail Mounted

General Specifications			SE3-SW5U	SE3-SW5U-T	SE3-SW8U	SE3-SW8U-T	SE3-SW5UG-T	SE3-SW8UG-T	SE3-SW5U-1C1-T	SE3-SW5U-1T1-T	SE3-SW6U-2C1-I	SE3-SW6U-2T1-I	SE3-SW7U-2P-T	SE3-SW5UG-1P-T	SE3-SW10UG-2P-T	SE3-SW16UG-4P-T
Processing Type			Store and forward													
Devices Supported			All IEEE 802.3 compliant devices are supported													
MAC Addresses	1K		●	●	●	●										
	2K								●	●	●	●				
	8K						●	●					●	●	●	●
Memory Buffer	448Kbits		●	●	●	●			●	●	●	●				
	1Mbit						●							●		
	4Mbits							●					●		●	●
Packet Forwarding Rate			14.88 Kpps for Ethernet ports 148.8 Kpps for Fast Ethernet ports 14,888 Kpps for Gigabit Ethernet ports													
Jumbo Frame Support	9.6 Kbytes							●					●		●	●
	10Kbytes						●							●		
Storage Temperature Range			-40 to +85 °C [-40 to +185 °F]													
Humidity (Non-Condensing)			5 to 95% RH													
Environmental Air			No corrosive gases permitted													
Vibration, Shock & Freefall			IEC60068-2-6, -27, -32													
EMI Emissions			FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A													
EMS			CE EN55035/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)													
RoHS			RoHS (Pb-free) compliant													
Packaging and Protection			Metal case, IP30													
Hazardous Locations (Class I, Div.2)	ANSI/ISA 12.12.01							●	●	●	●	●	●	●	●	
Agency Approvals	FCC, CE		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	UL 61010-1, 61010-2-201		●	●	●	●	●	●					●	●	●	●
	UL 508								●	●	●	●				

Stride® SE3 Series Unmanaged Industrial Ethernet Switches

SE3 Series Non-PoE DIN Rail Mounted

Power Details	
Power Input	Redundant input terminals, removable terminal block
Input Voltage	Class 2 power supply: 12-48 VDC
Reverse Power Protection	Yes
Power Consumption	Refer to Models table
Relay Contact	24VDC, 1A resistive, open on fault (not present on SE3-SW5U, SE3-SW5U-T)

| RJ45 Ports	
Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab for Gigabit Ethernet
Auto-Crossover	Yes, allows use of straight-through or crossover cables
Auto-Sensing Operation	Yes, full and half duplex
Auto-Negotiating Speed	Yes
Flow Control	IEEE 802.3x flow control, back pressure flow control
Cable Requirements	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm 1000BaseTX: UTP/STP Cat.5/5E cable EIA/TIA-568 100-ohm
Max. Cable Distance	100m [328ft]

SC/ST Fiber Port (100BaseFX multimode)	
Optimal Fiber Cable	50/125 or 62.5/125 µm
Center Wavelength	1310 nm
Multimode	Transmitter power into 50/125 cable (dBm): -20 min, -14 max Transmitter power into 62.5/125 cable (dBm): -23.5 min, -14 max Receiver sensitivity (dBm): -32
Nominal Max. Distance	2km [1.24 mi]
Eye Safety (laser)	IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11

SFP Ports	
Ethernet Compliance	IEEE 802.3, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab, 802.3z for Gigabit Ethernet
SFP (pluggable) ports accept 100/1000 Mbps Mini-GBIC (SFP) transceivers. See SFP module datasheet for optional fiber transceiver specifications	

Front Panel LEDs		
LED	**State**	**Description**
PWR1/PWR2	On	Power connected and operational
	Off	No voltage
FAULT	On	Power input 1 or 2 is inactive
	Off	Power input 1 and 2 are both functional
RJ45/SC/ ST/SFP Port LINK/ACT*	On	Indicates that there is a proper Ethernet connection (link) between the port and another Ethernet device but that no communications activity is detected
	Blinking	Indicates that there is a proper Ethernet connection (link) between the port and another Ethernet device and that there is communications activity
	Off	Indicates that there is not a proper Ethernet connection (link) between the port and another Ethernet device

* See user manual (SE3-USER-M) for details of LED operation for each model.

Dimensions					
Part Number	**Weight kg [lb]**	**Width (A)**	**Depth (B)**	**Height (C)**	**Drawing**
		mm [inches]			
SE3-SW5U	0.30 [0.66]	26 [1.0]	75 [3.0]	95 [3.7]	PDF
SE3-SW5U-T					PDF
SE3-SW8U	0.34 [0.74]	40 [1.6]	70 [2.8]	95 [3.7]	PDF
SE3-SW8U-T					PDF
SE3-SW5UG-T	0.45 [0.99]	30 [1.2]	95 [3.7]	140 [5.5]	PDF
SE3-SW8UG-T	0.52 [1.14]				PDF
SE3-SW5U-1C1-T	0.50 [1.10]	30 [1.2]	99 [3.9]	142 [5.6]	PDF
SE3-SW5U-1T1-T					PDF
SE3-SW6U-2C1-T					PDF
SE3-SW6U-2T1-T					PDF
SE3-SW7U-2P-T	0.57 [1.24]				PDF
SE3-SW5UG-1P-T	0.59 [1.30]				PDF
SE3-SW10UG-2P-T	0.71 [1.56]	46 [1.8]			PDF
SE3-SW16UG-4P-T	1.16 [2.57]	67 [2.6]			PDF
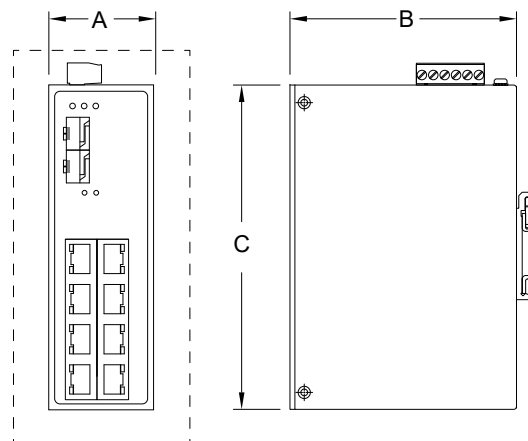
Stride® SE3 Series Unmanaged Industrial Power Over Ethernet Switches

SE3 Series PoE+ DIN Rail Mounted

Features

- Wide temp range
- DIN rail and panel mounting
- 12, 24 or 48 VDC redundant input
- GbE models
- 30W per port PoE+
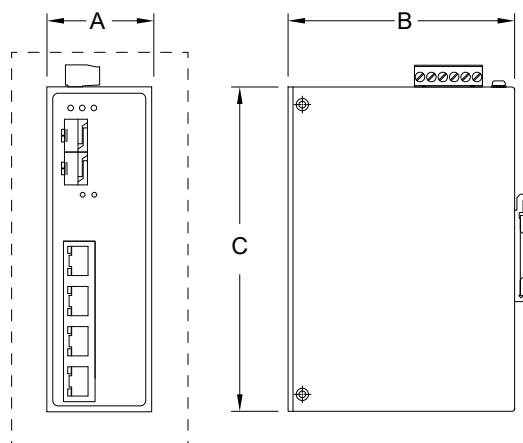- Haz Loc
- IP30 metal cases
- 5-year warranty

RoHS
RoHS Compliant

Stride SE3 PoE+ DIN Rail Mounted Unmanaged Models									
Part Number	Price	RJ45 10/100 PoE+	RJ45 GbE PoE+	RJ45 10/100 Non-PoE	RJ45 GbE Non-PoE	Fiber	System Power Requirements (max.)	Operating Temp	Agency Approvals
SE3-SWP1A5U-T	$249.00	4	–	1	–	–	4W	-40 to +75°C [-40 to 167°F]	FCC, CE, UL 508
SE3-SWP2A5U-T	$259.00	4	–		–	–	5.5 W	-40 to +75°C [-40 to 167°F]	FCC, CE, UL 508
SE3-SWP2A5UG-T	$349.00	–	4	–	1	–	6.3 W	-40 to +75°C [-40 to 167°F]	FCC, CE, UL 61010-1, 61010-2-201
SE3-SWP2A7U-2P-T	$299.00	4	–	1	–	2 SFP*	9W	-40 to +75°C [-40 to 167°F]	FCC, CE, UL 61010-1, 61010-2-201

* Optional SFP modules sold separately.

Power Details

Power Input	Redundant input terminals, removable terminal block	
Input Voltage (Class 2 Power Supply)	SE3-SWP1A5U-T	48–55 VDC
	SE3-SWP2A5U-T, SE3-SWP2A5UG-T	12–36 VDC
	SE3-SWP2A7U-2P-T	12–55 VDC
Reverse Power Protection	Yes	
Relay Contact	24VDC, 1A resistive, open on fault	

PoE Details

Max PoE Power Output	30W per PoE port	
Max PoE Power Budget	SE3-SWP1A5U-T	120W
	SE3-SWP2A5U-T	90–120W/12–36VDC
	SE3-SWP2A5UG-T	120W
	SE3-SWP2A7U-2P-T	60W/12VDC, 120W/36–55VDC
PoE Pinout	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A)	
PD (Powered Device) Detection	Yes - the switch port will detect the presence of a PoE enabled device before sending power. If a non-PoE device is detected, power will not be sourced on that port but Ethernet communications will be permitted.	
PoE Overload Protection	Yes	
Reverse Protection	Yes	
Redundancy Protection	Yes	

Dimensions

Part Number	Weight kg [lb]	Width (A)	Depth (B)	Height (C)	Drawing
		mm [inches]			
SE3-SWP1A5U-T	0.50 [1.10]	30 [1.2]	99 [3.9]	142 [5.6]	PDF
SE3-SWP2A5U-T	0.76 [1.68]	46 [1.8]	99 [3.9]	142 [5.6]	PDF
SE3-SWP2A5UG-T	0.70 [1.54]	46 [1.8]	99 [3.9]	142 [5.6]	PDF
SE3-SWP2A7U-2P-T	0.82 [1.81]	46 [1.8]	99 [3.9]	142 [5.6]	PDF

Stride® SE3 Series Unmanaged Industrial Power Over Ethernet Switches

SE3 Series PoE+ DIN Rail Mounted

General Specifications	SE3-SWP1A5U-T	SE3-SWP2A5U-T	SE3-SWP2A5UG-T	SE3-SWP2A7U-2P-T
Processing Type	Store and forward			
Devices Supported	All IEEE 802.3 compliant devices are supported			
MAC Addresses	2K		8K	
Memory Buffer	448Kbits		1Mbit	4Mbits
Packet Forwarding Rate	14.88 Kpps for Ethernet ports 148.8 Kpps for Fast Ethernet ports 14,888 Kpps for Gigabit Ethernet ports			
Jumbo Frame Support	–		10Kbytes	9.6 Kbytes
Storage Temperature Range	-40 to +85°C [-40 to +185°F]			
Humidity (Non-Condensing)	5 to 95% RH			
Environmental Air	No corrosive gases permitted			
Vibration, Shock & Freefall	IEC60068-2-6, -27, -32			
EMI Emissions	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A			
EMS	CE EN55035/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)			
RoHS	RoHS (Pb-free) compliant			
Packaging and Protection	Metal case, IP30			
Hazardous Locations (Class I, Div.2)	ANSI/ISA 12.12.01			
Agency Approvals	FCC, CE			
	UL 508		UL 61010-1, 61010-2-201	

Front Panel LEDs

LED	State	Description
PWR1/PWR2	On	Power connected and operational
	Off	No voltage
FAULT	On	Power input 1 or 2 is inactive
	Off	Power input 1 and 2 are both functional
RJ45*/ SFP Port LINK/ACT	On	Indicates that there is a proper Ethernet connection (link) between the port and another Ethernet device but that no communications activity is detected
	Blinking	Indicates that there is a proper Ethernet connection (link) between the port and another Ethernet device and that there is communications activity
	Off	Indicates that there is not a proper Ethernet connection (link) between the port and another Ethernet device
PoE (Ports 1–4)	On	The port is supplying power to the powered device
	Off	No powered device attached or failure in PoE power

* Upper LED indicates connection at highest available speed on RJ45 ports.

RJ45 Ports

Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab for Gigabit Ethernet IEEE 802.3af or 802.3at for PoE
Auto-Crossover	Yes, allows use of straight-through or crossover cables
Auto-Sensing Operation	Yes, full and half duplex
Auto-Negotiating Speed	Yes
Flow Control	IEEE 802.3x flow control, back pressure flow control
Cable Requirements	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm 1000BaseTX: UTP/STP Cat.5/5E cable EIA/TIA-568 100-ohm
Max. Cable Distance	100m [328ft]

SFP Ports

Ethernet Compliance	IEEE 802.3, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab, 802.3z for Gigabit Ethernet
SFP (pluggable) ports accept 100/1000 Mbps Mini-GBIC (SFP) transceivers. See SFP module datasheet for optional fiber transceiver specifications.	

Stride® SE3 Series Unmanaged Industrial Ethernet Switches
SE3 Series IP67 Rated

Features
- Rugged IP67 rating
- Tight M12 connections
- Wide temp range
- Panel and DIN rail mount
- 12, 24 or 48 VDC redundant input
- 5-year warranty

RoHS Compliant

Stride SE3 Series IP67 Rated Models					
Part Number	Price	M12, IP67 10/100Tx Ethernet Ports	Input power (max.)	Operating Temp	Agency Approvals
SE3-SW5U-N67-T	$279.00	5	0.5 W	-40 to +75°C [-40 to 167°F]	FCC, CE, UL 61010-1, 61010-2-201

Stride® SE3 Series Unmanaged Industrial Ethernet Switches

SE3 Series IP67 Rated

General Specifications

Processing Type	Store and forward
Devices Supported	All IEEE 802.3 compliant devices are supported
MAC Addresses	1K
Memory Buffer	448Kbits
Packet Forwarding Rate	14.88 Kpps for Ethernet ports 148.8 Kpps for Fast Ethernet ports
Storage Temperature Range	-40 to +85°C (-40 to +185°F)
Humidity (Non-Condensing)	5 to 95% RH
Environmental Air	No corrosive gases permitted
Vibration, Shock & Freefall	IEC60068-2-6, -27, -32
EMI Emissions	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
RoHS	RoHS (Pb-free) compliant
Packaging and Protection	Plastic case, IP67
Agency Approvals	FCC, CE, UL 61010-1, 61010-2-201

Power Details

|	
Power Connection	Dual DC power inputs through M12 5-pin A-coded male connector
Input Voltage	Class 2 power supply: 12–48 VDC redundant power inputs
Reverse Power Protection	Yes
System Power Consumption	0.5 W
Relay Contact	No

M12 Ethernet Ports

10/100BaseT Ports	M12, female, D-coded, 4-pin
Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet
Auto-Crossover	Yes, allows use of straight-through or crossover cables
Auto-Sensing Operation	Yes, full and half duplex
Auto-Negotiating Speed	Yes
Flow Control	IEEE 802.3x flow control, back pressure flow control
Cable Requirements	Twisted pair (Cat5e or better, shielded recommended)
Max. Cable Distance	100m [328ft]

Note: M12 caps need to be used on open (disconnected) ports.
Replacement caps (Part # ZP-JBH-CAP) are available from AutomationDirect.com.

Front Panel LEDs

LED	State	Description
PWR	On	Power input 1 or 2 is connected and operational
	Off	Power input 1 and 2 are both inactive
Ethernet Port LINK/ACT	On	Indicates that there is a proper Ethernet connection (link) between the port and another Ethernet device but that no communications activity is detected
	Blinking	Indicates that there is a proper Ethernet connection (link) between the port and another Ethernet device and that there is communications activity
	Off	Indicates that there is not a proper Ethernet connection (link) between the port and another Ethernet device

Dimensions

mm [Inches]

12.8 [0.50]

47.8 [1.88]

37.2 [1.46]

12.3 [0.48]

191.2 [7.53]

12.3 [0.48]

158.9 [6.26]

35.0 [1.38]

8.8 [0.35]
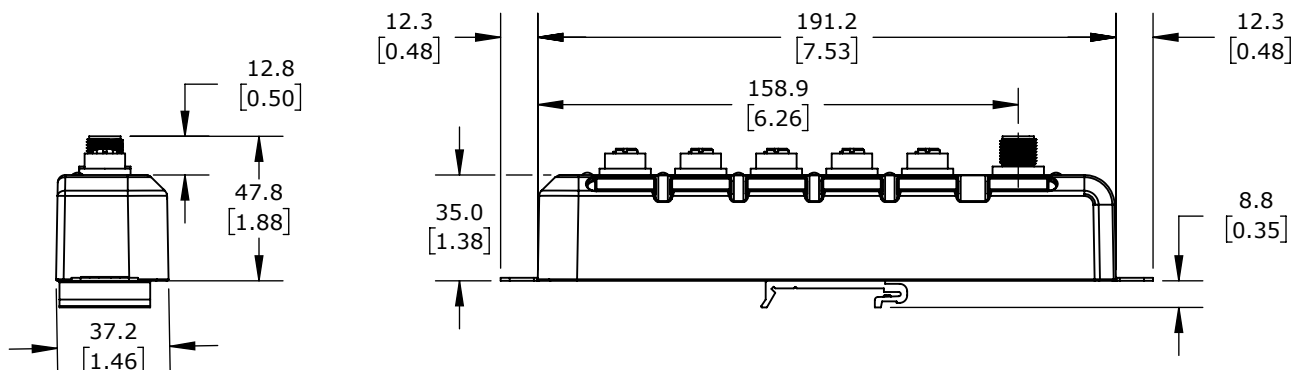
See our website: www.AutomationDirect.com for complete engineering drawings.

Stride Unmanaged Industrial Ethernet Switches

Features

- Reliable connectivity
- Industrially hardened
- Simple installation

- For detailed specifications on all models, see following pages

	SE Series	SE2 Series DIN Rail	SE2 Series IP65	SE3 Series DIN Rail	SE3 Series IP67
Price					
	starting at $129.00	starting at $138.00	starting at $354.00	starting at $78.00	starting at $279.00
Broadcast Storm Protection					
	—	✓	—	—	—
Industrial Temperature Ranges					
Standard Temp	-10 to +60°C	-10 to +60°C	—	-10 to +65°C	—
Wide Temp	-40 to +85°C	-40 to +75°C	-40 to +75°C	-40 to +75°C	-40 to +75°C
Port Connectivity					
Port Count	2 to 9	2 to 18	5	5 to 16	5
RJ45 Port Speed	up to 100 Mbps	up to 1000 Mbps	—	up to 1000 Mbps	—
M12 Port Speed	—	—	up to 100 Mbps	—	up to 100 Mbps
Fiber Optic Ports	✓	✓	—	✓	—
PoE+ Ports	—	✓	—	✓	—
SFP Ports	—	✓	—	✓	—
Mounting					
DIN Rail Mount	✓	✓	—	✓	✓
Panel Mount	✓	✓	✓	✓	✓
Input Power					
Redundant Power Inputs	✓	✓	✓	✓	✓
Reverse Polarity Protection	✓	✓	✓	✓	✓
Power LED	✓	✓	✓	✓	✓
Agency Approvals					
UL508 or UL61010	✓	✓	✓	✓	✓
Haz Loc–Class 1 Div 2	✓	✓	—	✓	—
IECEx	✓	—	—	—	—
ATEX Zone 2	✓	—	—	—	—
CE	✓	✓	✓	✓	✓
EN50155 & EN50121	—	—	✓	—	—
Warranty					
	5 years	5 years	5 years	5 years	5 years
Activity, Link & Speed LEDs					
	✓	✓	✓	✓	✓

Stride® Industrial Ethernet Fiber Transceivers
Fast Ethernet

Description:

STRIDE 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	1310 nm, FP	4km	$116.00
SFP-30K-FSF	Single-mode		30 km	$55.00
Note: Use only Gigabit speed SFPs with SE2-SW10UG-2P-T				

Transmitter Optical characteristics

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

General Specifications

Connector Type		Type LC connector with bail latch
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
Laser Type		FP laser diode (Class 1 laser safety standard IEC 60825 compliant)
Media	SFP-4K-FMF	Multi-mode Fiber
	SFP-30K-FSF	Single-mode Fiber
Fiber	SFP-4K-FMF	62.5 / 125 µm
	SFP-30K-FSF	9 / 125 µm
Code	SFP-4K-FMF	FX5
	SFP-30K-FSF	100LX
Distance	SFP-4K-FMF	4km
	SFP-30K-FSF	30 km
Compliances	SFP-4K-FMF	125Mbps IEEE802.3u 100BASE-FX compliant 125Mbps FDDI ISO/IEC 9314-1 compliant
	SFP-30K-FSF	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 / Outputs		AC-coupled differential inputs and outputs

Receiver Optical characteristics

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

Dimensions

Inches [mm]

0.53 [13.5]
0.09 [2.3]
0.33 [8.5]
0.49 [12.3]
2.18 [55.4]

Safety Standards:

c UL us
Electrical Safety

CE
European Directives

WEEE Compliant

RoHS
RoHS Compliant

FC
US Emissions
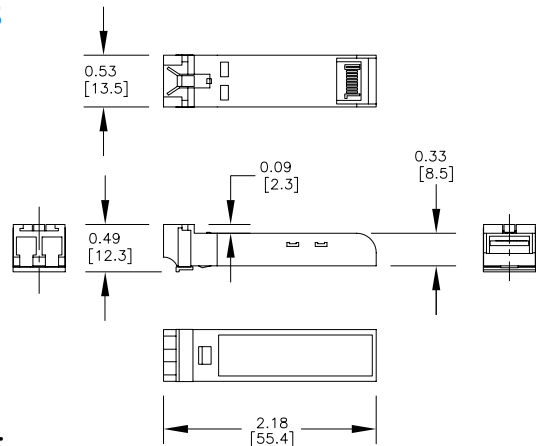
Stride® Industrial Ethernet Fiber Transceivers Gigabit Ethernet

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	$92.00
SFP-2K-GMF		1310 nm, FP	2km	$71.00
SFP-10K-GSF	Single-mode		10 km	$97.00
SFP-30K-GSF		1310 nm, DFB	30 km	$99.00

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

Transmitter Optical characteristics

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

Receiver Optical characteristics

Parameter (unit)		Minimum	Maximum
Sensitivity (dBm)	SFP-500-GMF		-17
	SFP-2K-GMF		-19
	SFP-10K-GSF		-20
	SFP-30K-GSF		-23
Operating Wavelength (nm)	SFP-500-GMF	770	860
	SFP-2K-GMF	1260	1610
	SFP-10K-GSF	1270	1355
	SFP-30K-GSF		1580
Return Loss (dB)	SFP-500-GMF		
	SFP-2K-GMF		12
	SFP-10K-GSF		
	SFP-30K-GSF		
Loss of Signal - Deasserted (dBm)	SFP-500-GMF		-17.5
	SFP-2K-GMF		-19
	SFP-10K-GSF		-20
	SFP-30K-GSF		-23
Loss of Signal - Asserted (dBm)	SFP-500-GMF		
	SFP-2K-GMF		-35
	SFP-10K-GSF		
	SFP-30K-GSF		
Loss of Signal - Hysteresis (dB)	SFP-500-GMF		
	SFP-2K-GMF		0.5
	SFP-10K-GSF		
	SFP-30K-GSF		

General Specifications

Connector Type		Type LC connector with bail latch
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
Laser Type	SFP-500-GMF	VCSEL laser diode (Class 1 laser safety standard IEC 60825 compliant)
	SFP-2K-GMF	FP laser diode (Class 1 laser safety standard IEC 60825 compliant)
	SFP-10K-GSF	
	SFP-30K-GSF	DFB laser diode (Class 1 laser safety standard IEC 60825 compliant)
Media	SFP-500-GMF	Multi-mode Fiber
	SFP-2K-GMF	
	SFP-10K-GSF	Single-mode Fiber
	SFP-30K-GSF	
Fiber	SFP-500-GMF	50 / 125 μm and 62.5 / 125 μm
	SFP-2K-GMF	
	SFP-10K-GSF	9 / 125 μm
	SFP-30K-GSF	
Code	SFP-500-GMF	SX
	SFP-2K-GMF	SX2
	SFP-10K-GSF	LX
	SFP-30K-GSF	lhx
Distance	SFP-500-GMF	550m
	SFP-2K-GMF	2km
	SFP-10K-GSF	10 km
	SFP-30K-GSF	40 km
Compliances	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
	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 / Outputs		AC-coupled differential inputs and outputs

Dimensions

Inches [mm]

0.53 [13.5]

0.09 [2.3]

0.33 [8.5]

0.49 [12.3]

2.18 [55.4]

Safety Standards:

c UL us
Electrical Safety

CE
European Directives

WEEE Compliant

RoHS
RoHS Compliant

FC
US Emissions