

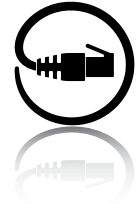
# Stride SE3 Series Unmanaged Industrial Ethernet Switches and Media Converters

## 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 models
- IP30 metal cases
- 5-year warranty



RoHS Compliant

### Stride SE3 Non-PoE DIN Rail Mounted Unmanaged Models

Part Number	Price	RJ45 10/100	RJ45 GbE	Fiber	Input power (max.)	Operating Temp	Agency Approvals
<a href="#"><u>SE3-SW5U</u></a>	\$72.00	5	-	-	1.2 W	-10 to +65°C [14 to 149°F]	See General Specifications Table for each model's approvals
<a href="#"><u>SE3-SW5U-T</u></a>	\$105.00				1.2 W	-40 to +75°C [-40 to 167°F]	
<a href="#"><u>SE3-SW8U</u></a>	\$121.00	8	-	-	2.2 W	-10 to +65°C [14 to 149°F]	
<a href="#"><u>SE3-SW8U-T</u></a>	\$136.00				2.2 W		
<a href="#"><u>SE3-SW5UG-T</u></a>	\$170.00	-	5	-	6.6 W		
<a href="#"><u>SE3-SW8UG-T</u></a>	\$229.00	-	8	-	9.2 W		
<a href="#"><u>SE3-SW5U-1C1-T</u></a>	\$167.00	4	-	1 SC	5W	-40 to +75°C [-40 to 167°F]	
<a href="#"><u>SE3-SW5U-1T1-T</u></a>	\$167.00			1 ST	5W		
<a href="#"><u>SE3-SW6U-2C1-T</u></a>	\$219.00			2 SC	6W		
<a href="#"><u>SE3-SW6U-2T1-T</u></a>	\$219.00			2 ST	6W		
<a href="#"><u>SE3-SW7U-2P-T</u></a>	\$219.00	5	-	2 SFP*	8W		
<a href="#"><u>SE3-SW5UG-1P-T</u></a>	\$199.00	-	4	1 SFP*	5.6 W		
<a href="#"><u>SE3-SW10UG-2P-T</u></a>	\$329.00	-	8	2 SFP*	12W		
<a href="#"><u>SE3-SW16UG-4P-T</u></a>	\$499.00	-	12	4 SFP*	15.4 W		
<a href="#"><u>SE3-MC2U-C1-T</u></a>	\$141.00	1	-	1 SC	1.92 W	-40 to +80°C [-40 to 176°F]	
<a href="#"><u>SE3-MC2U-T1-T</u></a>	\$141.00			1 ST			
<a href="#"><u>SE3-MC2UG-1P-T</u></a>	\$179.00	-	1	1 SFP*	1.8 W		

\* Optional SFP modules sold separately.

# Stride SE3 Series Unmanaged Industrial Ethernet Switches and Media Converters

## 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-T	SE3-SW6U-2T1-T	SE3-SW7U-2P-T	SE3-SW5UG-1P-T	SE3-SW10UG-2P-T	SE3-SW16UG-4P-T	SE3-MC2U-C1-T	SE3-MC2U-T1-T	SE3-MC2UG-1P-T	
<b>Processing Type</b>		Store and forward																	
<b>Devices Supported</b>		All IEEE 802.3 compliant devices are supported																	
<b>MAC Addresses</b>	1K	•	•	•	•														
	2K							•	•	•	•						NA		
	8K					•	•					•	•	•	•				•
<b>Memory Buffer</b>	128Kbits															•	•		
	448Kbits	•	•	•	•			•	•	•	•								
	1Mbit					•							•						•
	4Mbits						•					•		•	•				
<b>Packet Forwarding Rate</b>		14.88 Kpps for Ethernet ports 148.8 Kpps for Fast Ethernet ports 14,888 Kpps for Gigabit Ethernet ports																	
<b>Jumbo Frame Support</b>	9.6 Kbytes					•						•		•	•				
	10Kbytes					•							•						•
<b>Storage Temperature Range</b>		-40 to +85 °C [-40 to +185 °F]																	
<b>Humidity (Non-Condensing)</b>		5 to 95% RH																	
<b>Environmental Air</b>		No corrosive gases permitted																	
<b>Vibration, Shock &amp; Freefall</b>		IEC60068-2-6, -27, -32																	
<b>EMI Emissions</b>		FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A																	
<b>EMS</b>		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)																	
<b>RoHS</b>		RoHS (Pb-free) compliant																	
<b>Packaging and Protection</b>		Metal case, IP30																	
<b>Hazardous Locations (Class I, Div. 2)</b>	ANSI/ISA 12.12.01					•	•	•	•	•	•	•	•	•					
<b>Agency Approvals</b>	FCC, CE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	UL 61010-1, 61010-2-201	•	•	•	•	•	•					•	•	•	•	•	•	•	•
	UL 508							•	•	•	•								

# Stride SE3 Series Unmanaged Industrial Ethernet Switches and Media Converters

## SE3 Series Non-PoE DIN Rail Mounted

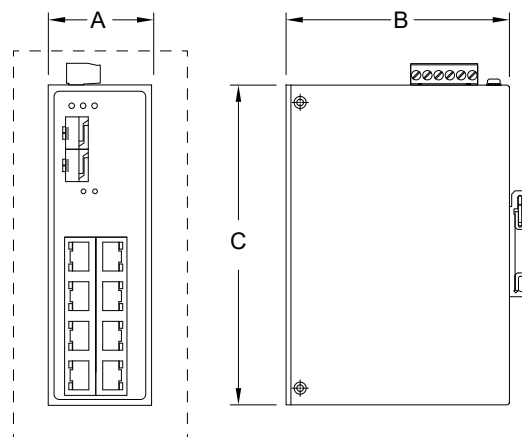
Power Details	
<b>Power Input</b>	Redundant input terminals, removable terminal block
<b>Input Voltage</b>	Class 2 power supply: 12-48 VDC
<b>Reverse Power Protection</b>	Yes
<b>Power Consumption</b>	Refer to Models table
<b>Relay Contact</b>	24VDC, 1A resistive, open on fault (not present on SE3-SW5U, SE3-SW5U-T, SE3-MC2UG-1P-T)

RJ45 Ports	
<b>Ethernet Compliance</b>	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab for Gigabit Ethernet, IEEE 802.3z for Gigabit Fiber
<b>Auto-Crossover</b>	Yes, allows use of straight-through or crossover cables
<b>Auto-Sensing Operation</b>	Yes, full and half duplex
<b>Auto-Negotiating Speed</b>	Yes
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control
<b>Cable Requirements</b>	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.5e/6a cable EIA/TIA-568 100-ohm
<b>Max. Cable Distance</b>	100m [328ft]

SC/ST Fiber Port (100BaseFX multimode)	
<b>Optimal Fiber Cable</b>	50/125 or 62.5/125 $\mu$ m
<b>Center Wavelength</b>	1310 nm
<b>Multimode</b>	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
<b>Nominal Max. Distance</b>	2km [1.24 mi]
<b>Eye Safety (laser)</b>	IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11

SFP Ports	
<b>Ethernet Compliance</b>	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	

Dimensions					
Part Number	Weight kg [lb]	Width (A)	Depth (B)	Height (C)	Drawing
		mm [inches]			
<a href="#">SE3-SW5U</a>	0.30 [0.66]	26 [1.0]	75 [3.0]	95 [3.7]	<a href="#">PDF</a>
<a href="#">SE3-SW5U-T</a>					<a href="#">PDF</a>
<a href="#">SE3-SW8U</a>	0.34 [0.74]	40 [1.6]	70 [2.8]	95 [3.7]	<a href="#">PDF</a>
<a href="#">SE3-SW8U-T</a>					<a href="#">PDF</a>
<a href="#">SE3-SW5UG-T</a>	0.45 [0.99]	30 [1.2]	95 [3.7]	140 [5.5]	<a href="#">PDF</a>
<a href="#">SE3-SW8UG-T</a>	0.52 [1.14]				<a href="#">PDF</a>
<a href="#">SE3-SW5U-1C1-T</a>	0.50 [1.10]	30 [1.2]	99 [3.9]	142 [5.6]	<a href="#">PDF</a>
<a href="#">SE3-SW5U-1T1-T</a>					<a href="#">PDF</a>
<a href="#">SE3-SW6U-2C1-T</a>					<a href="#">PDF</a>
<a href="#">SE3-SW6U-2T1-T</a>					<a href="#">PDF</a>
<a href="#">SE3-SW7U-2P-T</a>					<a href="#">PDF</a>
<a href="#">SE3-SW5UG-1P-T</a>					<a href="#">PDF</a>
<a href="#">SE3-SW10UG-2P-T</a>	0.71 [1.56]	46 [1.8]			<a href="#">PDF</a>
<a href="#">SE3-SW16UG-4P-T</a>	1.16 [2.57]	67 [2.6]			<a href="#">PDF</a>
<a href="#">SE3-MC2U-C1-T</a>	0.25 [0.55]	26 [1.0]	75 [3.0]	95 [3.7]	<a href="#">PDF</a>
<a href="#">SE3-MC2U-T1-T</a>					<a href="#">PDF</a>
<a href="#">SE3-MC2UG-1P-T</a>					<a href="#">PDF</a>



# Stride SE3 Series Unmanaged Industrial Ethernet Switches and Media Converters

## SE3 Series Non-PoE DIN Rail Mounted

### SE3-SW5UG-1P-T DIP Switch Settings

DIP Switch	Description	ON	OFF
1	Energy Efficient Ethernet	Enable	Disable
2	SFP Speed	100Mbps	1Gbps

### SE3-MC2UG-1P-T DIP Switch Settings

DIP Switch	Description	ON	OFF
1	Link Fault Pass (LFP)*	Enable	Disable
2	SFP Speed	100Mbps	1Gbps

\* See explanation below.

### SE3-MC2U-C1-T & SE3-MC2U-T1-T DIP Switch Settings

DIP Switch	Description	ON	OFF	
1	Link Fault Pass (LFP)*	Enable	Disable	
2	Operating Mode	Converter	Switch**	
3	Fiber Port Settings	Duplex Mode	Half-Duplex	Full-Duplex
4	Copper Port Settings	Auto-negotiation	Disable	Enable
5		Speed	10Mbps	100Mbps
6		Duplex Mode	Half-Duplex	Full-Duplex

\* See explanation below.

\*\* Switch mode is used to buffer incoming packets from the fiber port when the copper port is operating at 10Mbps.

### Link Fault Pass (LFP)

Link Fault Pass (LFP) technology allows for detection of a loss of connection as if there was no conversion from copper to fiber.

If the media converter detects a loss of connection on the copper port, it will in response automatically shut down the fiber port. This allows the receiving end of the fiber signal to detect the loss of ability to communicate to the end device at the copper side.

### Front Panel LEDs

LED	State	Description
PWR/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.

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

# Stride SE3 Series Unmanaged Industrial Power Over Ethernet Switches

## SE3 Series PoE+ DIN Rail Mounted



### Features

- Wide temp range
- DIN rail and panel mounting
- Redundant power inputs from 9 to 55VDC
- GbE models
- 30W per port PoE+, 90W per port PoE++
- Haz Loc models
- IP30 and IP40 metal cases
- 5-year warranty



RoHS Compliant

### Stride SE3 PoE+ DIN Rail Mounted Unmanaged Models

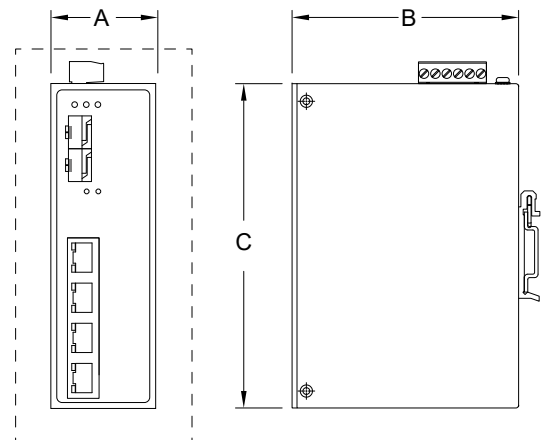
Part Number	Price	RJ45 10/100 PoE+	RJ45 GbE PoE+	RJ45 10/100 Non-PoE	RJ45 GbE Non-PoE	Fiber	System Power Requirements (max.)	Operating Temp	Agency Approvals
<a href="#">SE3-SWP1A5U-T</a>	\$249.00	4	-	1	-	-	4W	-40 to +75°C [-40 to 167°F]	FCC, CE, UL 508
<a href="#">SE3-SWP2A5U-T</a>	\$259.00						5.5 W		
<a href="#">SE3-SWP2A5UG-T</a>	\$349.00	-	4	-	1	-	6.3 W		FCC, CE, UL 61010-1, 61010-2-201
<a href="#">SE3-SWP2A7U-2P-T</a>	\$299.00	4	-	1	-	2 SFP*	9W		
<a href="#">SE3-SWP2B5UG-1P-T</a>	\$579.00	-	4	-	-	1 SFP*	6.3 W		

\* Optional SFP modules sold separately.

Power Details	
<b>Power Input</b>	Redundant input terminals, removable terminal block
<b>Input Voltage (Class 2 Power Supply)</b>	SE3-SWP1A5U-T: 48-55 VDC
	SE3-SWP2A5U-T, SE3-SWP2A5UG-T: 12-36 VDC
	SE3-SWP2A7U-2P-T: 12-55 VDC
	SE3-SWP2B5UG-1P-T: 9-55 VDC
<b>Reverse Power Protection</b>	Yes
<b>Relay Contact</b>	24VDC, 1A resistive, open on fault

Dimensions					
Part Number	Weight kg [lb]	Width (A)	Depth (B)	Height (C)	Drawing
		mm [inches]			
<a href="#">SE3-SWP1A5U-T</a>	0.50 [1.10]	30 [1.2]	99 [3.9]	142 [5.6]	<a href="#">PDF</a>
<a href="#">SE3-SWP2A5U-T</a>	0.76 [1.68]	46 [1.8]	99 [3.9]	142 [5.6]	<a href="#">PDF</a>
<a href="#">SE3-SWP2A5UG-T</a>	0.70 [1.54]				<a href="#">PDF</a>
<a href="#">SE3-SWP2A7U-2P-T</a>	0.82 [1.81]	65 [2.6]	90 [3.5]	110 [4.3]	<a href="#">PDF</a>
<a href="#">SE3-SWP2B5UG-1P-T</a>	0.912 [2.01]				<a href="#">PDF</a>

PoE Details	
<b>Max PoE Power Output</b>	SE3-SWP2B5UG-1P-T: 90W per PoE port (bt PoE-PSE)
	All other models: 30W per PoE port
<b>Max PoE Power Budget</b>	SE3-SWP1A5U-T: 120W
	SE3-SWP2A5U-T: 90-120W/12-36VDC
	SE3-SWP2A5UG-T: 120W
	SE3-SWP2A7U-2P-T: 60W/12VDC, 120W/36-55VDC
	SE3-SWP2B5UG-1P-T: 60W/9VDC, 90W/12VDC, 150W/24VDC, 240W/48-55VDC with iPoE budget control
<b>PoE Pinout</b>	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan, MDI Alternative A) SE3-SWP2B5UG-1P-T: also V+, V+, V-, V-, for pin 4, 5, 7, 8
<b>PD (Powered Device) Detection</b>	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.
<b>PoE Overload Protection</b>	Yes
<b>Reverse Protection</b>	Yes
<b>Redundancy Protection</b>	Yes



# 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	SE3-SWP2B5UG-1P-T
<b>Processing Type</b>	Store and forward				
<b>Devices Supported</b>	All IEEE 802.3 compliant devices are supported				
<b>MAC Addresses</b>	2K		8K		
<b>Memory Buffer</b>	448Kbits	1Mbit	4Mbits	1Mbit	
<b>Packet Forwarding Rate</b>	14.88 Kpps for Ethernet ports 148.8 Kpps for Fast Ethernet ports 14,888 Kpps for Gigabit Ethernet ports				
<b>Jumbo Frame Support</b>	-	10Kbytes	9.6 Kbytes	10Kbytes	
<b>Storage Temperature Range</b>	-40 to +85°C [-40 to +185°F]				
<b>Humidity (Non-Condensing)</b>	5 to 95% RH				
<b>Environmental Air</b>	No corrosive gases permitted				
<b>Vibration, Shock &amp; Freefall</b>	IEC60068-2-6, -27, -32				
<b>EMI Emissions</b>	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A				
<b>EMS</b>	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)				
<b>RoHS</b>	RoHS (Pb-free) compliant				
<b>Packaging</b>	Metal case				
<b>Protection</b>	IP30			IP40	
<b>Hazardous Locations (Class I, Div.2)</b>	ANSI/ISA 12.12.01			NA	
<b>Agency Approvals</b>	FCC, CE UL 508      UL 61010-1, 61010-2-201				

SE3-SWP2B5UG-1P-T Only SFP/PRRT DIP Switch Settings			
DIP Switch	Description	ON	OFF
1	PD Remote Reset Technology (PRRT)*	Enable	Disable
2	SFP Speed	100Mbps	1Gbps

\* Reboots PoE Ethernet switch when the fiber link drops for 3 seconds.  
NOTE: Power the device off and on again to apply changes to these settings.

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, or other fault condition
	Off	Power input 1 and 2 are both functional
RJ45*/SFP Port LINK/ACT	On	Proper Ethernet connection (link) but no communications activity is detected
	Blinking	Proper Ethernet connection (link) and communications activity detected
	Off	No Ethernet connection (link) detected
PoE (Ports 1-4)	On	The port is supplying power to the powered device
	Off	No powered device attached or failure in PoE power
PoE Draw	**	SE3-SWP2B5UG-1P-T only. PoE consumption is ≤50%, 51-70%, 71-90% or 91-100%.

\* Upper LED indicates connection at highest available speed on RJ45 ports.  
\*\* See user manual for details.

RJ45 Ports	
<b>Ethernet Compliance</b>	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 IEEE 802.3bt for PoE on SE3-SWP2B5UG-1P-T
<b>Auto-Crossover</b>	Yes, allows use of straight-through or crossover cables
<b>Auto-Sensing Operation</b>	Yes, full and half duplex
<b>Auto-Negotiating Speed</b>	Yes
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control
<b>Cable Requirements</b>	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.5e/6a cable EIA/TIA-568 100-ohm
<b>Max. Cable Distance</b>	100m [328ft]

SFP Ports	
<b>Ethernet Compliance</b>	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 transceiver specifications.	

SE3-SWP2B5UG-1P-T Only Safe PoE Disable DIP Switch Settings			
DIP Switch	Description	ON	OFF
1	Port 2 PoE Function*	Enable	Disable
2	Port 3 PoE Function*	Enable	Disable
3	Port 4 PoE Function*	Enable	Disable
4	Port 5 PoE Function*	Enable	Disable

\* Allows user to deactivate PoE power on a port before disconnecting the cable.

# Stride SE3 Series Unmanaged Industrial Power Over Ethernet Injectors

## SE3 Series PoE+ DIN Rail Mounted



### Features

- Inject power into Gigabit Ethernet link
- IEEE 802.3af/at/bt compliant PoE
- Wide temp range
- DIN rail and panel mounting
- 9–55 VDC redundant input
- Up to 100W per port PoE+ +
- IP30 metal cases
- 5-year warranty



RoHS Compliant

Stride SE3 PoE+ DIN Rail Mounted Unmanaged Injector Models					
Part Number	Price	RJ45 GbE PoE+	RJ45 GbE Non-PoE	Maximum PoE Power Budget	Operating Temp
SE3-IJ2A2UG-T	\$279.00	1	1	100W	-40 to +75°C [-40 to 167°F]
SE3-IJ2B2UG-T	\$259.00			90W	

Power Details	
<b>Power Input</b>	Redundant input terminals, removable terminal block
<b>Input Voltage (Class 2 Power Supply)</b>	9–55 VDC
<b>Maximum Current</b>	8A (including PoE power budget)
<b>Reverse Power Protection</b>	Yes
<b>System Power Consumption</b>	1.6 W
<b>Relay Contact</b>	24VDC, 1A resistive, open on fault

General Specifications	
<b>Storage Temperature Range</b>	-40 to +85°C [-40 to +185°F]
<b>Humidity (Non-Condensing)</b>	5 to 95% RH
<b>Environmental Air</b>	No corrosive gases permitted
<b>Vibration, Shock &amp; Freefall</b>	IEC60068-2-6, -27, -32
<b>EMI Emissions</b>	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
<b>EMS</b>	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)
<b>RoHS</b>	RoHS (Pb-free) compliant
<b>Packaging</b>	Metal case
<b>Protection</b>	IP30
<b>Agency Approvals</b>	FCC, CE
	UL 61010-1, 61010-2-201

PoE Details		
<b>Max PoE Power Budget</b>	SE3-IJ2A2UG-T	Standard PoE Mode: 60W@9VDC, 90W@12–55VDC Enhanced PoE Mode: 60W@9VDC, 90W@12VDC, 100W@24–55VDC
	SE3-IJ2B2UG-T	Standard PoE Mode: 60W@9VDC, 90W@12–55VDC
<b>PoE Pinout</b>	V-, V-, V+, V+, for pin 1, 2, 3, 6 Also V+, V+, V-, V-, for pin 4, 5, 7, 8	
<b>PD (Powered Device) Detection</b>	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.	
<b>PoE Overload Protection</b>	Yes	
<b>Reverse Protection</b>	Yes	
<b>Redundancy Protection</b>	Yes	

# Stride SE3 Series Unmanaged Industrial Power Over Ethernet Injectors

## SE3 Series PoE+ DIN Rail Mounted

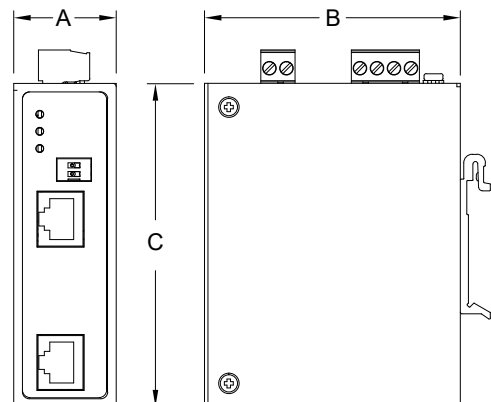
Front Panel LEDs			
LED	Color	State	Description
PWR	Green	On	Power inputs 1 and 2 are active
	Red	On	Power input 1 or 2 is inactive, alarm relay triggered
	-	Off	No voltage on either power input
PoE	Amber	On	The PoE output port is supplying power to the powered device over 2 pairs
	Green	On	The PoE output port is supplying power to the powered device over 4 pairs
	Amber	Blinking	The PoE output port is supplying power over 2 pairs after the Dual PD Check event happens (only occurs when Dual PD Check function is disabled)
	Green	Blinking	The PoE output port once supplied power over 2 pairs and now has recovered to supply power over 4 pairs
	-	Off	No powered device attached or failure in PoE power
P/L*	-	Off	Actual PoE power consumption is $\leq 30W$
	Blue	On	$30W < \text{Actual PoE power consumption} \leq 60W$
	Red	On	$60W < \text{Actual PoE power consumption} \leq 90W$
	Red	Blinking	$90W < \text{Actual PoE power consumption} \leq 100W$ (This event only occurs when Enhanced mode is enabled)

\* SE3-IJ2A2UG-T only

RJ45 Ports	
<b>Ethernet Compliance</b>	IEEE 802.3af/at/bt for PoE
<b>Auto-Crossover</b>	Yes, allows use of straight-through or crossover cables
<b>Auto-Sensing Operation</b>	Yes, full and half duplex
<b>Auto-Negotiating Speed</b>	Yes
<b>Cable Requirements</b>	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.5e/6a cable EIA/TIA-568 100-ohm
<b>Max. Cable Distance</b>	100m [328ft] (total cable length from device A through the injector to device B)

SE3-IJ2A2UG-T DIP Switch Settings			
DIP Switch	Description	ON	OFF
1	PoE Mode	Enhanced Mode 50W max PoE budget over 2 pairs 100W max PoE budget over 4 pairs	Standard Mode PoE output follows IEEE 802.3at/bt
2	Dual PD Check	Enabled Valid detection required on both channels for PoE classification and power	Disabled Valid detection required for operation of each channel independently

Dimensions					
Part Number	Weight kg [lb]	Width (A)	Depth (B)	Height (C)	Drawing
		mm [inches]			
<a href="#">SE3-IJ2A2UG-T</a>	0.37 [0.82]	30 [1.2]	75 [3.0]	95 [3.7]	<a href="#">PDF</a>
<a href="#">SE3-IJ2B2UG-T</a>	0.36 [0.79]				<a href="#">PDF</a>





# 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
<a href="#"><u>SE3-SW5U-N67-T</u></a>	\$279.00	5	1.2 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	
<b>Processing Type</b>	Store and forward
<b>Devices Supported</b>	All IEEE 802.3 compliant devices are supported
<b>MAC Addresses</b>	1K
<b>Memory Buffer</b>	448Kbits
<b>Packet Forwarding Rate</b>	14.88 Kpps for Ethernet ports 148.8 Kpps for Fast Ethernet ports
<b>Storage Temperature Range</b>	-40 to +85°C (-40 to +185°F)
<b>Humidity (Non-Condensing)</b>	5 to 95% RH
<b>Environmental Air</b>	No corrosive gases permitted
<b>Vibration, Shock &amp; Freefall</b>	IEC60068-2-6, -27, -32
<b>EMI Emissions</b>	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
<b>EMS</b>	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)
<b>RoHS</b>	RoHS (Pb-free) compliant
<b>Packaging and Protection</b>	Plastic case, IP67
<b>Agency Approvals</b>	FCC, CE, UL 61010-1, 61010-2-201

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

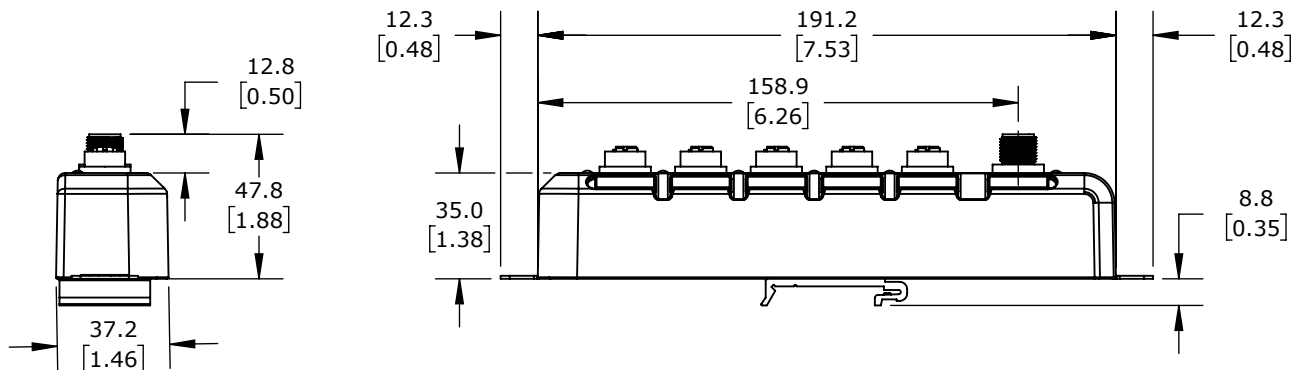
M12 Ethernet Ports	
<b>10/100BaseT Ports</b>	M12, female, D-coded, 4-pin
<b>Ethernet Compliance</b>	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet
<b>Auto-Crossover</b>	Yes, allows use of straight-through or crossover cables
<b>Auto-Sensing Operation</b>	Yes, full and half duplex
<b>Auto-Negotiating Speed</b>	Yes
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control
<b>Cable Requirements</b>	Twisted pair (Cat5e or better, shielded recommended)
<b>Max. Cable Distance</b>	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
<b>PWR</b>	On	Power input 1 or 2 is connected and operational
	Off	Power input 1 and 2 are both inactive
<b>Ethernet Port LINK/ACT</b>	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]



See our website: [www.AutomationDirect.com](http://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 the specific series pages



		<b>SE Series</b>	<b>SE3 Series DIN Rail</b>	<b>SE3 Series IP67</b>
<b>Price</b>				
		starting at \$129.00	starting at \$72.00	starting at \$279.00
<b>Broadcast Storm Protection</b>				
		—	—	—
<b>Industrial Temperature Ranges</b>				
	<b>Standard Temp</b>	-10 to +60°C [14 to 140°F]	-10 to +65°C [14 to 149°F]	—
	<b>Wide Temp</b>	-40 to +85°C [-40 to +185°F]	-40 to +75°C [-40 to +167°F]	-40 to +75°C [-40 to +167°F]
<b>Port Connectivity</b>				
	<b>Port Count</b>	2 to 9	5 to 16	5
	<b>RJ45 Port Speed</b>	up to 100 Mbps	up to 1000 Mbps	—
	<b>M12 Port Speed</b>	—	—	up to 100 Mbps
	<b>Fiber Optic Ports</b>	✓	✓	—
	<b>PoE+ Ports</b>	—	✓	—
	<b>SFP Ports</b>	—	✓	—
<b>Mounting</b>				
	<b>DIN Rail Mount</b>	✓	✓	✓
	<b>Panel Mount</b>	✓	✓	✓
<b>Input Power</b>				
	<b>Redundant Power Inputs</b>	✓	✓	✓
	<b>Reverse Polarity Protection</b>	✓	✓	✓
	<b>Power LED</b>	✓	✓	✓
<b>Agency Approvals</b>				
	<b>UL508 or UL61010</b>	✓	✓	✓
	<b>Haz Loc—Class 1 Div 2</b>	✓	✓ (certain models)	—
	<b>IECEX</b>	✓	—	—
	<b>ATEX Zone 2</b>	✓	—	—
	<b>CE</b>	✓	✓	✓
	<b>EN50155 &amp; EN50121</b>	—	—	—
<b>Warranty</b>				
		<b>5 years</b>	<b>5 years</b>	<b>5 years</b>
<b>Activity, Link &amp; Speed LEDs</b>				
		✓	✓	✓

# 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	\$49.00
SFP-30K-FSF	Single-mode		30 km	\$44.00

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

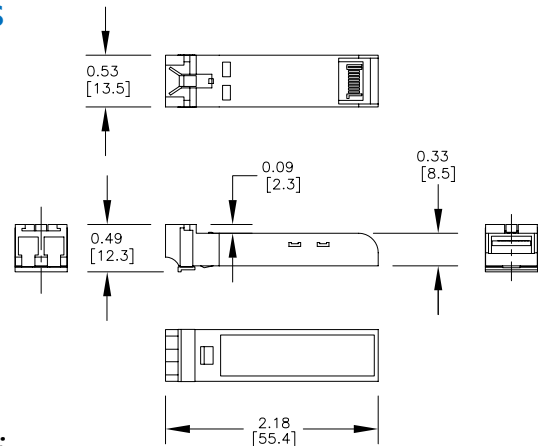
Transmitter Optical characteristics				
Parameter (unit)		Minimum	Typical	Maximum
Output optical power (dBm)	SFP-4K-FMF	-9		0
	SFP-30K-FSF	-15		-8
Extinction Ratio (dB)	SFP-4K-FMF	8.2		
	SFP-30K-FSF			
Center Wavelength (nm)	SFP-4K-FMF	1261	1310	1360
	SFP-30K-FSF			
Spectral width - RMS (nm)	SFP-4K-FMF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

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		

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	

### Dimensions

Inches [mm]



**Safety Standards:**



# 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
<b>SFP-500-GMF</b>	Multi-mode	850 nm, VCSEL	550m	\$39.00
<b>SFP-2K-GMF</b>			2km	\$69.00
<b>SFP-10K-GSF</b>	Single-mode	1310 nm, FP	10 km	\$39.00
<b>SFP-30K-GSF</b>			30 km	\$99.00

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

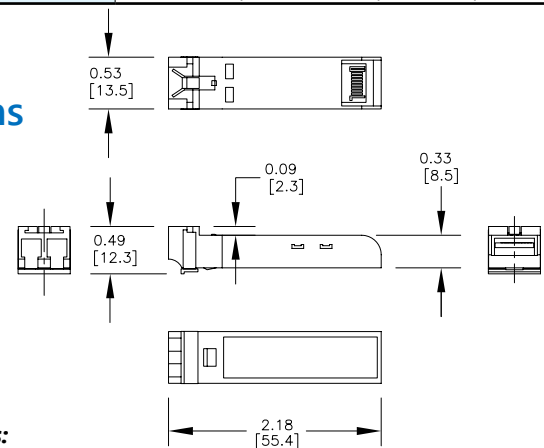
Transmitter Optical characteristics				
Parameter (unit)		Minimum	Typical	Maximum
Output optical power (dBm)	SFP-500-GMF	-9.5		-4
	SFP-2K-GMF	-9		-1
	SFP-10K-GSF	-9.5		-3
	SFP-30K-GSF	-2	1	3
Extinction Ratio (dB)	SFP-500-GMF	9		
	SFP-2K-GMF			
	SFP-10K-GSF			
	SFP-30K-GSF			
Center Wavelength (nm)	SFP-500-GMF	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			260
	SFP-2K-GMF			
	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	12		
	SFP-2K-GMF			
	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	-35		
	SFP-2K-GMF			
	SFP-10K-GSF			
	SFP-30K-GSF			
Loss of Signal - Hysteresis (dB)	SFP-500-GMF	0.5		
	SFP-2K-GMF			
	SFP-10K-GSF			
	SFP-30K-GSF			

General Specifications	
<b>Connector Type</b>	Type LC connector with bail latch
<b>Operating Temperature range</b>	-40 to +85 °C [-40 to +185 °F]
<b>Storage temperature range</b>	-40 to +85 °C [-40 to +185 °F]
<b>Humidity (non-condensing)</b>	5 to 95% RH
<b>Link Speed</b>	Gigabit Ethernet
<b>Laser Type</b>	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 DFB laser diode (Class 1 laser safety standard IEC 60825 compliant)
	SFP-30K-GSF DFB laser diode (Class 1 laser safety standard IEC 60825 compliant)
<b>Media</b>	SFP-500-GMF SFP-2K-GMF SFP-10K-GSF SFP-30K-GSF Multi-mode Fiber
	SFP-500-GMF SFP-2K-GMF SFP-10K-GSF SFP-30K-GSF Single-mode Fiber
	SFP-500-GMF SFP-2K-GMF SFP-10K-GSF SFP-30K-GSF 50 / 125 µm and 62.5 / 125 µm
	SFP-500-GMF SFP-2K-GMF SFP-10K-GSF SFP-30K-GSF 9 / 125 µm
<b>Code</b>	SFP-500-GMF SX
	SFP-2K-GMF SX2
	SFP-10K-GSF LX
	SFP-30K-GSF lhx
<b>Distance</b>	SFP-500-GMF 550m
	SFP-2K-GMF 2km
	SFP-10K-GSF 10 km
	SFP-30K-GSF 40 km
<b>Compliances</b>	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
<b>Inputs / Outputs</b>	AC-coupled differential inputs and outputs

## Dimensions

Inches [mm]



## Safety Standards:



# Stride Industrial Ethernet Copper Transceivers Gigabit Ethernet

## Description:

The STRIDE SFP-1GC-T 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.



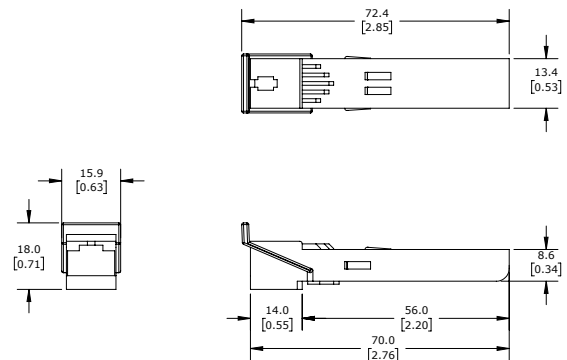
Part Number	Connector Type	Link Speed	Price
<b>SFP-1GC-T</b>	RJ-45	Gigabit Ethernet	\$69.00

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

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

## Dimensions

Inches [mm]



## Safety Standards:

