

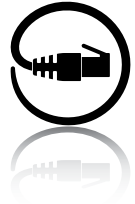
Stride SE3 Series Unmanaged Industrial Ethernet Switches and Media Converters

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 |
|--|----------|----------------|-------------|--------|-----------------------|--------------------------------|---|
| <u>SE3-SW5U</u> | \$72.00 | 5 | - | - | 1.2 W | -10 to +65°C [14 to 149°F] | See General Specifications Table for each model's approvals |
| <u>SE3-SW5U-T</u> | \$105.00 | | | | 1.2 W | -40 to +75°C [-40 to 167°F] | |
| <u>SE3-SW8U</u> | \$121.00 | 8 | - | - | 2.2 W | -10 to +65°C [14 to 149°F] | |
| <u>SE3-SW8U-T</u> | \$136.00 | | | | 2.2 W | | |
| <u>SE3-SW5UG-T</u> | \$170.00 | - | 5 | - | 6.6 W | | |
| <u>SE3-SW8UG-T</u> | \$229.00 | - | 8 | - | 9.2 W | | |
| <u>SE3-SW5U-1C1-T</u> | \$167.00 | 4 | - | 1 SC | 5W | -40 to +75°C [-40 to 167°F] | |
| <u>SE3-SW5U-1T1-T</u> | \$167.00 | | | 1 ST | 5W | | |
| <u>SE3-SW6U-2C1-T</u> | \$219.00 | | | 2 SC | 6W | | |
| <u>SE3-SW6U-2T1-T</u> | \$219.00 | | | 2 ST | 6W | | |
| <u>SE3-SW7U-2P-T</u> | \$219.00 | 5 | - | 2 SFP* | 8W | | |
| <u>SE3-SW5UG-1P-T</u> | \$199.00 | - | 4 | 1 SFP* | 5.6 W | | |
| <u>SE3-SW10UG-2P-T</u> | \$329.00 | - | 8 | 2 SFP* | 12W | | |
| <u>SE3-SW16UG-4P-T</u> | \$499.00 | - | 12 | 4 SFP* | 15.4 W | | |
| <u>SE3-MC2U-C1-T</u> | \$141.00 | 1 | - | 1 SC | 1.92 W | -40 to +80°C [-40 to 176°F] | |
| <u>SE3-MC2U-T1-T</u> | \$141.00 | | | 1 ST | | | |
| <u>SE3-MC2UG-1P-T</u> | \$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 | |
| Processing Type | | Store and forward | | | | | | | | | | | | | | | | | |
| Devices Supported | | All IEEE 802.3 compliant devices are supported | | | | | | | | | | | | | | | | | |
| MAC Addresses | 1K | • | • | • | • | | | | | | | | | | | | | | |
| | 2K | | | | | | | • | • | • | • | | | | | | NA | | |
| | 8K | | | | | • | • | | | | | | • | • | • | • | | | • |
| Memory Buffer | 128Kbits | | | | | | | | | | | | | | | • | • | | |
| | 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 and Media Converters

SE3 Series Non-PoE DIN Rail Mounted

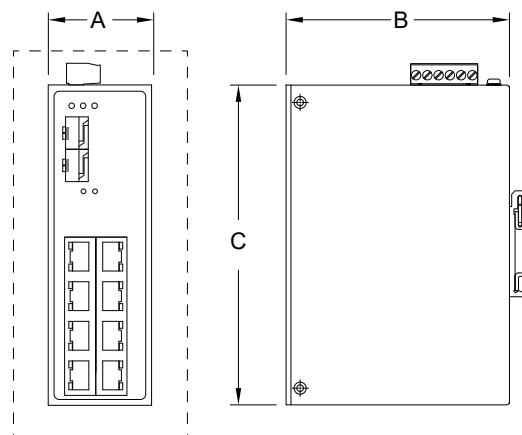
| Power Details | |
|---------------------------------|--|
| Power Input | Redundant input terminals, removable terminal block |
| Input Voltage | Class 2 power supply: 12-48 VDC |
| Reverse Power Protection | Yes |
| Power Consumption | Refer to Models table |
| Relay Contact | 24VDC, 1A resistive,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

| RJ45 Ports | |
|-------------------------------|--|
| Ethernet Compliance | IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab for Gigabit Ethernet, IEEE 802.3z for Gigabit Fiber |
| 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.5e/6a 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 μ m |
| 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 | |

| 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 | | | | | PDF |
| SE3-SW5UG-1P-T | | | | | PDF |
| SE3-SW10UG-2P-T | 0.71 [1.56] | 46 [1.8] | 75 [3.0] | 95 [3.7] | PDF |
| SE3-SW16UG-4P-T | 1.16 [2.57] | 67 [2.6] | | | PDF |
| SE3-MC2U-C1-T | 0.25 [0.55] | 26 [1.0] | 75 [3.0] | 95 [3.7] | PDF |
| SE3-MC2U-T1-T | | | | | PDF |
| SE3-MC2UG-1P-T | | | | | PDF |



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

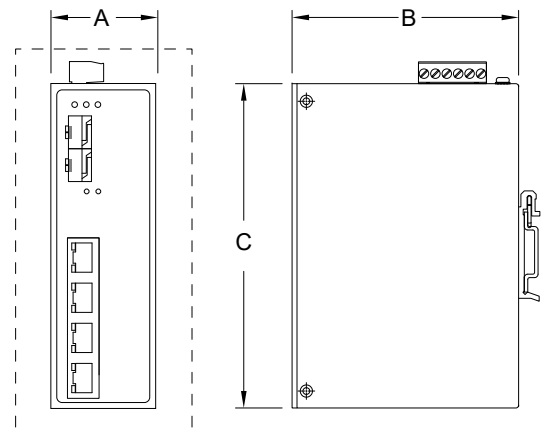
| Part Number | Price | RJ45 10/100 PoE+ | RJ45 GbE PoE+ | RJ45 10/100 Non-PoE | RJ45 GbE Non-PoE | Fiber | System Power Requirements (max.) | Operating Temp | Agency Approvals |
|-----------------------------------|----------|------------------|---------------|---------------------|------------------|--------|----------------------------------|--------------------------------|--------------------|
| 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 | | | | | | 5.5 W | | |
| SE3-SWP2A5UG-T | \$349.00 | - | 4 | - | 1 | - | 6.3 W | | |
| SE3-SWP2A7U-2P-T | \$299.00 | 4 | - | 1 | - | 2 SFP* | 9W | | |
| SE3-SWP2B5UG-1P-T | \$579.00 | - | 4 | - | - | 1 SFP* | 6.3 W | | |

* 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 |
| | SE3-SWP2B5UG-1P-T: 9-55 VDC |
| Reverse Power Protection | Yes |
| Relay Contact | 24VDC, 1A resistive, open on fault |

| 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] | | | | PDF |
| SE3-SWP2A7U-2P-T | 0.82 [1.81] | 65 [2.6] | 90 [3.5] | 110 [4.3] | PDF |
| SE3-SWP2B5UG-1P-T | 0.912 [2.01] | | | | PDF |

| PoE Details | |
|--------------------------------------|---|
| Max PoE Power Output | SE3-SWP2B5UG-1P-T: 90W per PoE port (bt PoE-PSE) |
| | All other models: 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 |
| | SE3-SWP2B5UG-1P-T: 60W/9VDC, 90W/12VDC, 150W/24VDC, 240W/48-55VDC with iPoE budget control |
| PoE Pinout | 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 |
| 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 |



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 |
| Processing Type | Store and forward | | | | |
| Devices Supported | All IEEE 802.3 compliant devices are supported | | | | |
| MAC Addresses | 2K | | 8K | | |
| Memory Buffer | 448Kbits | 1Mbit | 4Mbits | 1Mbit | |
| 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 | 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 | Metal case | | | | |
| Protection | IP30 | | | IP40 | |
| Hazardous Locations (Class I, Div.2) | ANSI/ISA 12.12.01 | | | NA | |
| Agency Approvals | 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 | |
|-------------------------------|--|
| 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 IEEE 802.3bt for PoE on SE3-SWP2B5UG-1P-T |
| 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.5e/6a 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 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 | |
|--------------------------------------|---|
| Power Input | Redundant input terminals, removable terminal block |
| Input Voltage (Class 2 Power Supply) | 9–55 VDC |
| Maximum Current | 8A (including PoE power budget) |
| Reverse Power Protection | Yes |
| System Power Consumption | 1.6 W |
| Relay Contact | 24VDC, 1A resistive, open on fault |

| General Specifications | |
|-----------------------------|---|
| 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 | Metal case |
| Protection | IP30 |
| Agency Approvals | FCC, CE |
| | UL 61010-1, 61010-2-201 |

| PoE Details | | |
|-------------------------------|---|--|
| Max PoE Power Budget | 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 |
| PoE Pinout | V-, V-, V+, V+, for pin 1, 2, 3, 6 Also V+, V+, V-, V-, for pin 4, 5, 7, 8 | |
| 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 | |

Stride SE3 Series Unmanaged Industrial Power Over Ethernet Injectors

SE3 Series PoE+ DIN Rail Mounted

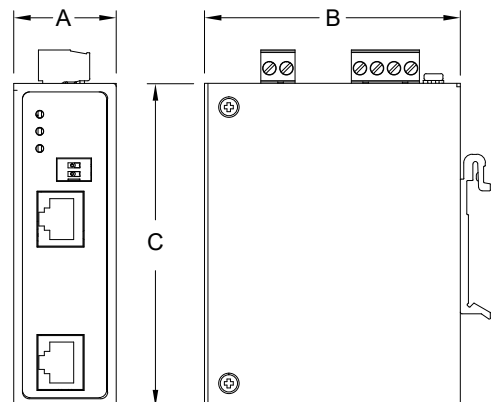
| Front Panel LEDs | | | |
|------------------|-------|----------|---|
| LED | Color | State | Description |
| PWR | Green | On | Power inputs 1 and 2 are active |
| | Red | On | Power input 1 or 2 is inactive, alarm relay triggered |
| | - | Off | No voltage on either power input |
| PoE | Amber | On | 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 | |
|-------------------------------|--|
| Ethernet Compliance | IEEE 802.3af/at/bt 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 |
| 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.5e/6a cable EIA/TIA-568 100-ohm |
| Max. Cable Distance | 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] | | | |
| SE3-IJ2A2UG-T | 0.37 [0.82] | 30 [1.2] | 75 [3.0] | 95 [3.7] | PDF |
| SE3-IJ2B2UG-T | 0.36 [0.79] | | | | PDF |



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 |
|---------------------------------------|----------|--------------------------------------|--------------------|-----------------------------|-------------------------------------|
| <u>SE3-SW5U-N67-T</u> | \$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

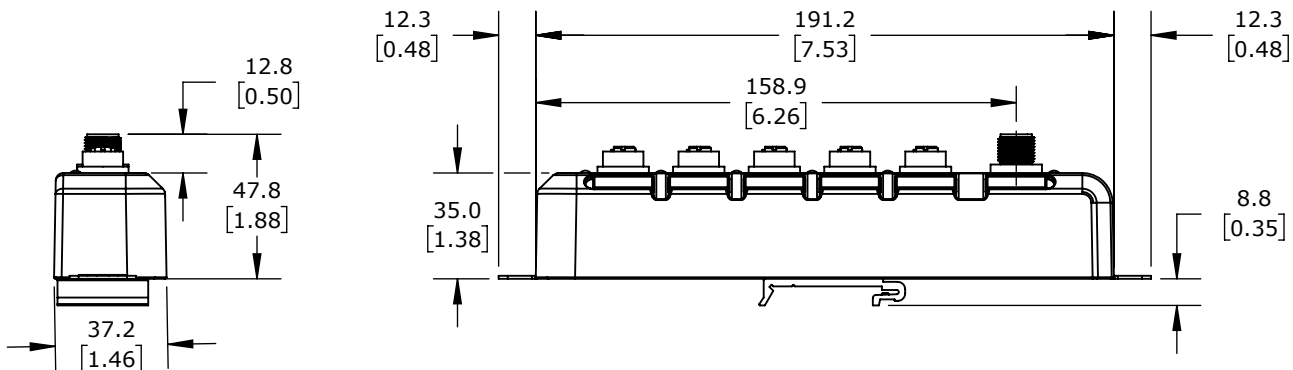
SE3 Series IP67 Rated

| General Specifications | |
|--|---|
| 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 |

Dimensions

mm [Inches]



See our website: www.AutomationDirect.com for complete engineering drawings.

| 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 |

Stride Unmanaged Industrial Ethernet Switches

Features

- Reliable connectivity
- Industrially hardened
- Simple installation
- For detailed specifications on all models, see the specific series pages



| | | SE Series | SE3 Series DIN Rail | SE3 Series IP67 |
|--|------------------------------------|------------------------------|------------------------------|------------------------------|
| Price | | | | |
| | | starting at \$129.00 | starting at \$72.00 | starting at \$279.00 |
| Broadcast Storm Protection | | | | |
| | | — | — | — |
| Industrial Temperature Ranges | | | | |
| | Standard Temp | -10 to +60°C [14 to 140°F] | -10 to +65°C [14 to 149°F] | — |
| | Wide Temp | -40 to +85°C [-40 to +185°F] | -40 to +75°C [-40 to +167°F] | -40 to +75°C [-40 to +167°F] |
| Port Connectivity | | | | |
| | Port Count | 2 to 9 | 5 to 16 | 5 |
| | RJ45 Port Speed | up to 100 Mbps | up to 1000 Mbps | — |
| | M12 Port Speed | — | — | 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 | ✓ | ✓ (certain models) | — |
| | IECEX | ✓ | — | — |
| | ATEX Zone 2 | ✓ | — | — |
| | CE | ✓ | ✓ | ✓ |
| | EN50155 & EN50121 | — | — | — |
| Warranty | | | | |
| | | 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 | \$49.00 |
| SFP-30K-FSF | Single-mode | | 30 km | \$44.00 |

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

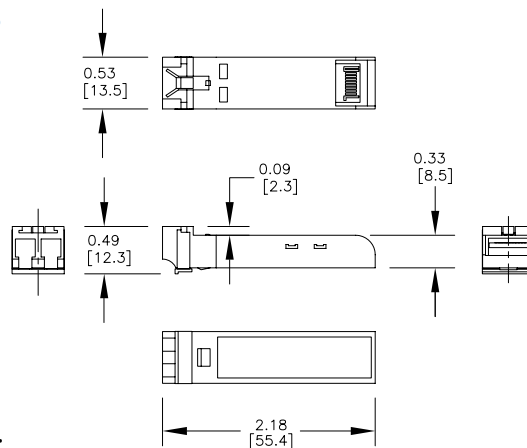
| Transmitter Optical characteristics | | | | |
|-------------------------------------|-------------|---------|---------|---------|
| Parameter (unit) | | Minimum | Typical | Maximum |
| Output optical power (dBm) | SFP-4K-FMF | -9 | | 0 |
| | SFP-30K-FSF | -15 | | -8 |
| Extinction Ratio (dB) | SFP-4K-FMF | 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 |
|--------------------|-------------|---------------|---------------------|---------|
| SFP-500-GMF | Multi-mode | 850 nm, VCSEL | 550m | \$39.00 |
| SFP-2K-GMF | | | 2km | \$69.00 |
| SFP-10K-GSF | Single-mode | 1310 nm, FP | 10 km | \$39.00 |
| SFP-30K-GSF | | | 30 km | \$99.00 |

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

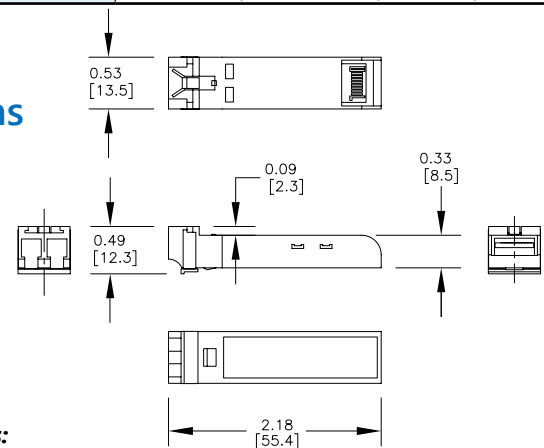
| Transmitter Optical characteristics | | | | |
|-------------------------------------|-------------|---------|---------|---------|
| Parameter (unit) | | Minimum | Typical | Maximum |
| Output optical power (dBm) | SFP-500-GMF | -9.5 | | -4 |
| | SFP-2K-GMF | -9 | | -1 |
| | SFP-10K-GSF | -9.5 | | -3 |
| | 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 | |
|------------------------------------|--|
| 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 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) |
| Media | 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 |
| 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]



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.



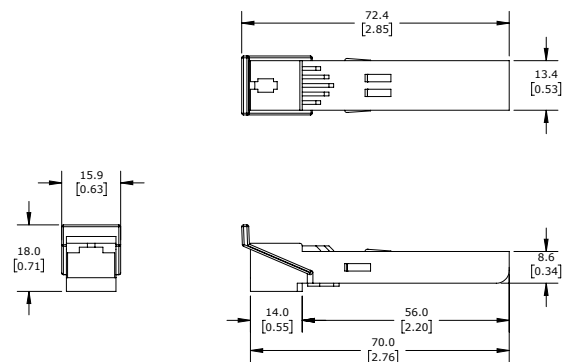
| Part Number | Connector Type | Link Speed | Price |
|------------------|----------------|------------------|---------|
| SFP-1GC-T | RJ-45 | Gigabit Ethernet | \$69.00 |

| 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:

