

# Stride SE2 Series Managed Industrial Ethernet Switches



| Stride SE2 Series Managed Models |          |                |             |                   |
|----------------------------------|----------|----------------|-------------|-------------------|
| Part Number                      | Price    | Ethernet Ports | Fiber Ports | Input Power (max) |
| <b><u>SE2-SW8M-2C1</u></b>       | \$648.00 | 6              | 2 SC        | 8.1 W             |

\*Optional SFP modules sold separately.

## Features

- Modbus TCP management capability
- EtherNet/IP management capability
- Wide temp range
- DIN-rail mount with optional panel mount accessory
- Metal housing
- 12, 24 VDC redundant input
- Gigabit Ethernet (GbE) models
- Haz Loc
- 5-year warranty

# Stride SE2 Series Managed Industrial Ethernet Switches

## Specifications

| General Specifications                 |                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating Mode</b>                  | Store and forward wire speed switching, non-blocking                                                                                                                                                                                                                                                   |
| <b>Devices Supported</b>               | All IEEE 802.3 compliant devices are supported                                                                                                                                                                                                                                                         |
| <b>MAC Addresses</b>                   | 8K                                                                                                                                                                                                                                                                                                     |
| <b>Ethernet Protocols Supported</b>    | SNMPv1 / v2 / v3, RMON, DHCP, SNTP, TFTP, STP, RSTP, QoS / DS, IGMPv1 / v2, VLAN (tag and port based), HTTP, HTTPS (SSL and TLS), Telnet, SSH and more                                                                                                                                                 |
| <b>Industrial Protocols Supported</b>  | Modbus TCP, EtherNet/IP, PROFInet, Foundation Fieldbus HSE and others                                                                                                                                                                                                                                  |
| <b>Packet Forwarding Rate</b>          | 1.4 Mpps                                                                                                                                                                                                                                                                                               |
| <b>Latency</b>                         | < 10 $\mu$ s                                                                                                                                                                                                                                                                                           |
| <b>Operating Temperature Range</b>     | -40 to +75°C [-40 to +167°F]                                                                                                                                                                                                                                                                           |
| <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 CFR47 Part 15, EN55032/CISPR32, Class A                                                                                                                                                                                                                                                            |
| <b>EMS</b>                             | IEC61000-4-2 (ESD): $\pm$ 8kV (contact), $\pm$ 15kV (air)<br>IEC61000-4-3 (RS): 10V/m (80MHz ~ 2GHz)<br>IEC61000-4-4 (EFT): Power Port $\pm$ 4kV; Data Port: $\pm$ 2kV<br>IEC61000-4-5 (Surge): Power Port: $\pm$ 2kV/DM, $\pm$ 4kV/CM; Data Port $\pm$ 2kV<br>IEC61000-4-6 (CS): 10V (150kHz ~ 80MHz) |
| <b>RoHS and WEEE</b>                   | RoHS (Pb free) and WEEE compliant                                                                                                                                                                                                                                                                      |
| <b>Packaging and Protection</b>        | Metal case, IP40                                                                                                                                                                                                                                                                                       |
| <b>Hazardous Locations</b>             | ANSI/ISA 12.12.01-2015 & CSA22.2 No. 213-15 (Class I, Div.2) (file #E200031)                                                                                                                                                                                                                           |
| <b>Agency Approvals</b>                | UL/cUL 508, CE                                                                                                                                                                                                                                                                                         |

| Power Details                   |                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Power Input</b>              | Redundant Input Terminals                                                                         |
| <b>Input Voltage</b>            | Class 2 Power Supply: 12-24 VDC                                                                   |
| <b>Reverse Power Protection</b> | Yes                                                                                               |
| <b>Wire Size and Torque</b>     | 18-12 AWG, max wire length 3m [9.84 ft];<br>Wire strip length 7mm;<br>Torque: 3.5 lb-in [0.4 N·m] |
| <b>Power Consumption</b>        | Refer to Stride SE2 Series Managed Models table                                                   |

| SC or ST Fiber Port: (100BaseFX multimode) |                                                                                                                                  |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>100BaseFX Ports</b>                     | 2                                                                                                                                |
| <b>Fiber Port Connector</b>                | ST or SC, by model                                                                                                               |
| <b>Optimal Fiber Cable</b>                 | 50/125 or 62.5/125 $\mu$ m                                                                                                       |
| <b>Center Wavelength</b>                   | 1300 nm                                                                                                                          |
| <b>Multimode</b>                           | Links up to 4 km typ.;<br>> Transmitter power (dBm): -21 min, -17 typ, -14 max<br>> Receiver sensitivity (dBm): -34 typ, -31 max |
| <b>Nominal Max. Distance (full duplex)</b> | 4 km                                                                                                                             |
| <b>Eye Safety (laser)</b>                  | IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11                                                                             |

| RJ45 Ports                    |                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------|
| <b>Port Type</b>              | Shielded RJ45                                                                                |
| <b>Ethernet Compliance</b>    | IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet<br>IEEE 802.3ab, 802.3z for Gigabit Ethernet |
| <b>Auto-Crossover</b>         | Yes, allows you to use straight-through or crossover wired cables                            |
| <b>Auto-Sensing Operation</b> | Yes, full and half duplex                                                                    |
| <b>Auto-Negotiating Speed</b> | Yes                                                                                          |
| <b>Flow Control</b>           | Automatic                                                                                    |
| <b>Cable Requirements</b>     | Twisted pair (Cat5e or better) (shielded recommended)                                        |
| <b>Max. Cable Distance</b>    | 100 meters                                                                                   |

| SFP Ports                                                                                     |  |
|-----------------------------------------------------------------------------------------------|--|
| SFP (pluggable) ports accept Mini-GBIC (SFP) transceivers with a speed of 1000Mbps or 100Mbps |  |
| See SFP datasheet for optional fiber transceiver specification                                |  |

| Console ports: USB           |                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Management Interfaces</b> | Browser, Text (Telnet and SSH), CLI (command line interface) and SNMP (see the user manual for supported MIBs) |

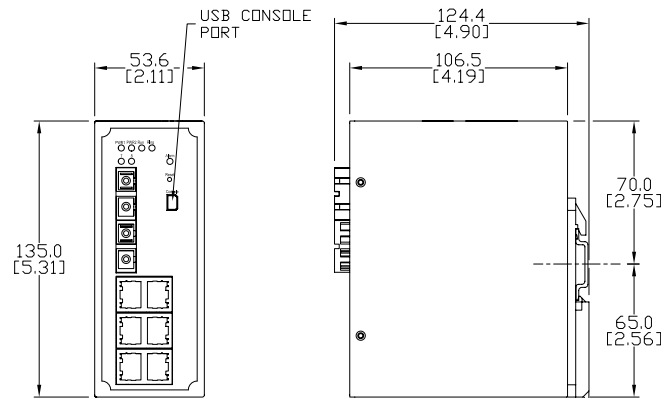
# Stride SE2 Series Managed Industrial Ethernet Switches

## SE2 Series DIN Rail mounted switches

Allow 20mm [0.79"] clearance around the switch for cooling

## Dimensions

mm [inches]



**SE2-SW8M-2C1**

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.

# Stride<sup>®</sup> Managed Industrial Ethernet Switches

## Industrial Hardened Full Feature Layer 2 Switch



• For detailed specifications on all models, see following pages

|                                       |                             | SE Series                     | SE2 Series                    |
|---------------------------------------|-----------------------------|-------------------------------|-------------------------------|
| <b>Price</b>                          |                             |                               |                               |
|                                       |                             | starting at \$519.00 (5 port) | starting at \$648.00 (8 port) |
| <b>Full Feature Layer 2 Switch</b>    |                             |                               |                               |
|                                       |                             | ✓                             | ✓                             |
| <b>Industrial Temperature Ranges</b>  |                             |                               |                               |
|                                       | Wide Temp                   | -40 to +75°C                  | -40 to +75°C                  |
| <b>Ethernet Connectivity</b>          |                             |                               |                               |
|                                       | RJ45 Ports                  | up to 1000 Mbps               | up to 1000 Mbps               |
|                                       | Fiber Optic Ports           | ✓                             | ✓                             |
|                                       | SFP Ports                   | ✓                             | ✓                             |
| <b>Port Count</b>                     |                             |                               |                               |
|                                       |                             | 5,8,10,16                     | 8,16,18                       |
| <b>Industrial Protocol Management</b> |                             |                               |                               |
|                                       | Modbus TCP                  | Read                          | Full Management               |
|                                       | EtherNet/IP                 | —                             | Full Management               |
| <b>Network Redundancy</b>             |                             |                               |                               |
|                                       | STP/RSTP                    | ✓                             | ✓                             |
|                                       | Proprietary Fast Recovery   | Real-Time Ring                | AD-Ring/AD-RP                 |
| <b>Mounting</b>                       |                             |                               |                               |
|                                       | DIN Rail Mount              | ✓                             | ✓                             |
|                                       | Panel Mount                 | Integrated                    | Optional accessory            |
| <b>Input Power</b>                    |                             |                               |                               |
|                                       | Redundant Power Inputs      | ✓                             | ✓                             |
|                                       | Reverse Polarity Protection | ✓                             | ✓                             |
|                                       | Power LED                   | ✓                             | ✓                             |
|                                       | Power Alarm                 | ✓                             | ✓                             |
| <b>Agency Approvals</b>               |                             |                               |                               |
|                                       | UL508 / 61010               | ✓                             | ✓                             |
|                                       | Haz Loc—Class 1 Div 2       | ✓                             | ✓                             |
|                                       | ATEX Zone 2                 | ✓                             | —                             |
|                                       | CE                          | ✓                             | ✓                             |
| <b>Warranty</b>                       |                             |                               |                               |
|                                       |                             | 5 years                       | 5 years                       |