

# STRIDE™ INDUSTRIAL UNMANAGED ETHERNET SWITCH 8-PORT – DATA SHEET



**SE-SW8U**



**SE-SW8U-WT**  
Metal case designed  
for -40 ° to 85 °C.



**NOTE:** FOR ADDITIONAL PRODUCT DETAILS, A USER MANUAL, SE-USER-M, IS AVAILABLE AS A DOWNLOADABLE PDF FILE FROM THE ONLINE DOCUMENTATION AREA OF THE AUTOMATIONDIRECT WEBSITE.

## Description:

STRIDE SlimLine Industrial Unmanaged Ethernet Switch with eight 10/100BaseT RJ45 Ethernet ports. Redundant power inputs with surge and spike protection. Auto-crossover. DIN rail mounting. Supports store & forward wire speed switching and full-duplex with flow control. UL, CSA (CUL), & CE. The -WT models have a metal case and are rated for a wider temperature range, from -40 ° to 85 °C.



**NOTE:** DIMENSIONS, INSTALLATION AND WIRING INFORMATION IS SHOWN ON THE BACK OF THIS DATA SHEET.

### Copper RJ45 Ports: (10/100BaseT)

<b>10/100BaseT ports</b>	Shielded RJ45
<b>Protocols supported</b>	All standard IEEE 802.3
<b>Ethernet compliancy</b>	IEEE 802.3, 802.3u, 802.3x
<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</b>	Yes, 10BaseT and 100BaseT
<b>Auto-polarity</b>	Yes, on the TD and RD pair
<b>Flow control</b>	Automatic
<b>Ethernet isolation</b>	1500 VRMS 1 minute
<b>Plug and play</b>	Yes
<b>Cable requirements</b>	Twisted pair (Cat. 5 or better) (shielded recommended)
<b>Max. cable distance</b>	100 meters

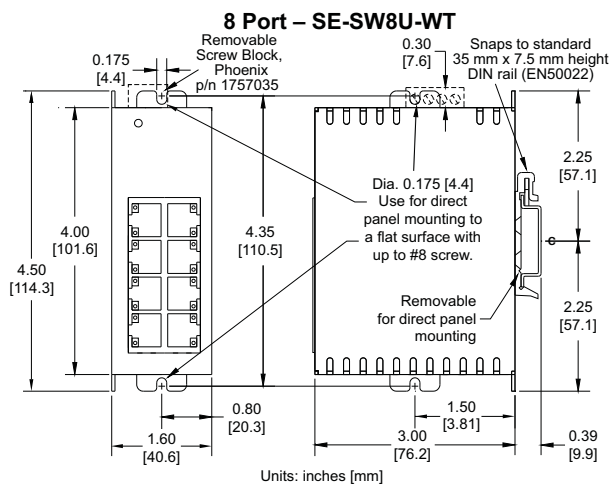
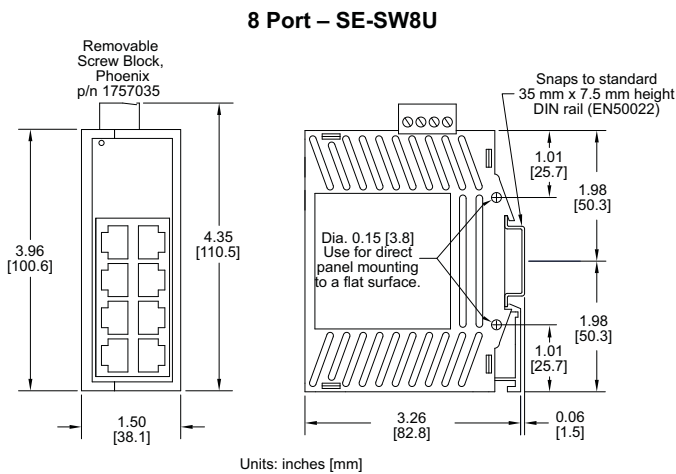
### General Specifications

<b>Ethernet switch type</b>	8 ports	
<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>Standards</b>	IEEE 802.3, 802.3u, 802.3x	
<b>MAC addresses</b>	1024 addresses	
<b>Memory bandwidth</b>	3.2 Gbps	
<b>Latency for 10 Mbps ports</b>	16 us + frame time (typical)	
<b>Latency for 100 Mbps ports</b>	5 us + frame time (typical)	
<b>Power input</b>	Redundant Input Terminals	
<b>Input power (typical with all ports active at 100 Mbps)</b>	4.0 W	
<b>Input voltage</b>	10-30 VDC (continuous) - Class 2 Power Supply	
<b>Reverse power protection</b>	Yes	
<b>Transient protection</b>	15,000 watts peak	
<b>Spike protection</b>	5,000 watts (10x for 10 us)	
<b>Ethernet isolation</b>	1500 VRMS 1 minute	
<b>Operating temperature range</b>	SE-SW8U	-10 to +60 °C (+14 to +140 °F), cold startup at -10 °C (+14 °F)
	SE-SW8U-WT	-40 to +85 °C (-40 to +185 °F), cold startup at -40 °C (-40 °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 gasses permitted	
<b>Vibration, shock &amp; freefall</b>	IEC68-2-6, -27, -32	
<b>Agency Approvals</b>	UL/cUL 508, CSA C22 per EN61010-1, UL/cUL 1604 (Class 1, Div. 2, Groups A, B, C, D), CSA C 22.2/213 9 per EN50021/EN60079-15 (Zone 2, Category 3), CE (ATEX)	
<b>EMI emissions</b>	FCC part 15, ICES-003, EN55022	
<b>EMC immunity</b>	IEC61326-1	
<b>Hazardous locations</b>	UL1604, CSA C22.2/213 (Class 1, Div.2) (file #E200031); EN50021/EN60079-15 (Zone2)	
<b>RoHS and WEEE</b>	RoHS (Pb free) and WEEE compliant	
<b>Packaging and protection</b>	SE-SW8U	UL94V0 Lexan, IP30
	SE-SW8U-WT	Aluminum IP30
<b>Dimensions (L x W x H)</b>	See mechanical diagrams for details	
<b>Weight</b>	SE-SW8U	6 oz (0.17 kg)
	SE-SW8U-WT	8 oz (0.23 kg)

### Safety Standards:



## Dimensions:



## Installation – DIN Rail Mounting:

The switch can be snapped onto a standard 35 mm x 7.5 mm height DIN rail (Standard: CENELEC EN50022) and can be mounted either vertically or horizontally.

DIN rail mounting steps, plastic and metal case:

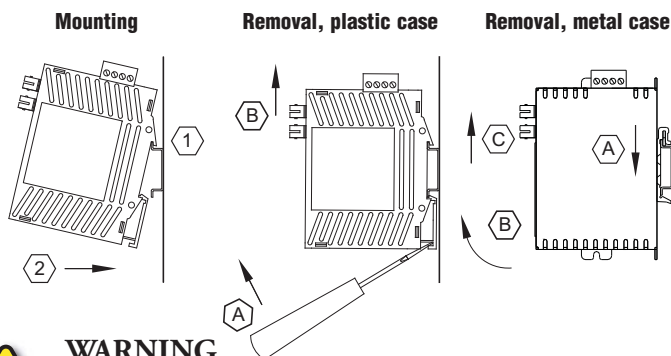
1. Hook top back of unit over the DIN rail.
2. Push bottom back onto the DIN rail until it snaps into place.

DIN rail removal steps, plastic case:

- A. Insert screwdriver into DIN clip and pry until it releases from the rail.
- B. Unhook top of unit from DIN rail.

DIN rail removal steps, metal case:

- A. Push the unit down to free the bottom of the DIN rail.
- B. Rotate the bottom of the unit away from the DIN rail.
- C. Unhook top of unit from DIN rail.



### WARNING

To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

*Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.*

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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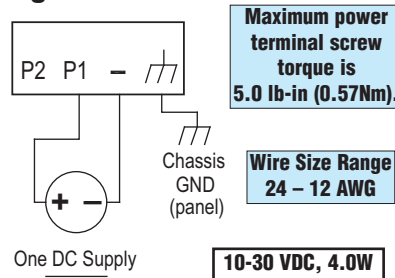
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## Power Wiring:

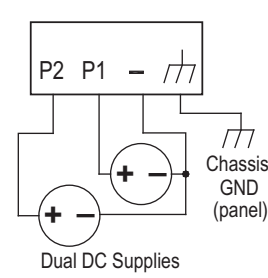
The switch can be powered from the same DC source that is used to power your other devices. To maintain the UL508 listing, this must be a Class 2 power supply. A DC voltage in the range of 10 to 30 VDC needs to be applied between the P1 (plus) terminal and the Minus terminal as shown below. The chassis screw terminal should be tied to panel or chassis ground. To reduce down time resulting from power loss, the switch can be powered redundantly with a second power supply as shown below.

A recommended DC power supply is [AutomationDirect.com](http://AutomationDirect.com) Part number PSC-24-015.

### Single DC Power



### Redundant DC Power



## Communication Ports Wiring:

The switch provides connections to standard Ethernet devices such as PLCs, Ethernet I/O, industrial computers and much more. Use data-quality (not voice-quality) twisted pair cable rated category 5 (or better) with standard RJ45 connectors. Straight-through or crossover RJ45 cable can be used for all devices the switch is connected to as all the ports are capable of auto-mdi/mdix-crossover detection.

The RJ45 Ethernet port connector bodies on the switch are metallic and connected to the Chassis GND terminal. Therefore, shielded cables may be used to provide further protection. To prevent ground loops, the cable shield should be tied to the metal connector body at one end of the cable only. Electrical isolation is also provided on the Ethernet ports for increased reliability.

## Additional Help and Support

- For additional product support, specifications, and installation, a User Manual, SE-USER-M, is available as a downloadable PDF file from the Online Documentation area of [www.AutomationDirect.com](http://www.AutomationDirect.com)
- For additional technical support and questions, call our Technical Support team @ 770-844-4200.

