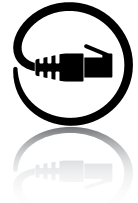# Stride® SE Series Unmanaged Industrial Ethernet Switches and Media Converters

Features

• Wide temp range option
• Integrated panel mounting option
• 12, 24 VDC redundant input
• IP40 metal case models
  - IP30 plastic case models
• Haz Loc
• 5-year warranty

c UL us   Ex   CE

IECEx   RoHS

RoHS Compliant

Plastic Case Switches

Stride SE Series Unmanaged Models						
Part Number	Price	10/100	Fiber Connector	Input Power	Operating Temp	Agency Approvals
SE-SW5U		5	–	2.0 W	-10 to +60°C [+14 to +140°F]	UL/cUL 508, Haz Loc, CE
SE-SW8U		8	–	4.0 W		
SE-SW5U-ST		4	1 ST	3.0 W		
SE-SW5U-SC			1 SC			
SE-SW9U-ST		8	1 ST	5.0 W		
SE-SW9U-SC			1 SC			
SE-MC2U-ST		1	1 ST	2.0 W		
SE-MC2U-SC			1 SC			

Metal Case Switches

Stride SE Series Unmanaged Models						
Part Number	Price	10/100	Fiber Connector	Input Power	Operating Temp	Agency Approvals
SE-SW5U-WT		5	–	2.0 W	-40 to +85°C [-40 to +185°F]	UL/cUL 508, Haz Loc, CE
SE-SW8U-WT		8	–	4.0 W		
SE-SW5U-ST-WT		4	1 ST	3.0 W		
SE-SW5U-SC-WT		4	1 SC			
SE-SW9U-ST-WT		8	1 ST	5.0 W		
SE-SW9U-SC-WT		8	1 SC			

Stride® SE Series Unmanaged Industrial Ethernet Switches and Media Converters

General Specifications

Ethernet Switch Type	Up to 9 ports
Operating Mode	Store and forward wire speed switching, non-blocking
Devices Supported	All IEEE 802.3 compliant devices are supported
Standards	IEEE 802.3, 802.3u, 802.3x
MAC Addresses	1024 addresses
Memory Bandwidth	3.2 Gbps
Latency for 10 Mbps ports	16 µs + frame time (typical)
Latency for 100 Mbps ports	5 µs + frame time (typical)
Power Input	Redundant Input Terminals

Input Power (typical with all ports active at 100 Mbps)	SE-MC2U-ST SE-MC2U-SC SE-SW5U SE-SW5U-WT	2.0 W
	SE-SW5U-ST SE-SW5U-SC SE-SW5U-ST-WT SE-SW5U-SC-WT	3.0 W
	SE-SW8U SE-SW8U-WT	4.0 W
	SE-SW9U-ST SE-SW9U-SC SE-SW9U-ST-WT SE-SW9U-SC-WT	5.0 W

Input Voltage	10-30 VDC (continuous)–Class 2 Power Supply
Reverse Power Protection	Yes
Transient Protection	15,000 watts peak
Spike Protection	5,000 watts (10x for 10 us)
Ethernet Isolation	1500 VRMS 1 minute

Operating Temperature Range	SE-MC2U-ST SE-MC2U-SC SE-SW5U SE-SW8U SE-SW5U-ST SE-SW5U-SC SE-SW9U-ST SE-SW9U-SC	-10 to +60°C [+14 to +140°F], cold startup at -10°C [+14°F]
	SE-SW5U-WT SE-SW8U-WT SE-SW5U-ST-WT SE-SW5U-SC-WT SE-SW9U-ST-WT SE-SW9U-SC-WT	-40 to +85°C [-40 to +185°F], cold startup at -40°C [-40°F]

Storage Temperature Range	-40 to +85°C [-40 to +185°F]
Humidity (non-condensing)	5 to 95% RH
Environmental Air	No corrosive gasses permitted. For use in Pollution Degree 2 environment
Vibration and Shock	IEC60068-2 and -27
EMI Emissions	FCC part 15, ICES-003, EN55022
EMC Immunity	IEC61326-1
RoHS and WEEE	RoHS (Pb free) and WEEE compliant
Agency Approvals	UL/cUL 508, CSA C22 per EN61010-1, UL HazLoc (Class 1, Div. 2, Groups A, B, C, D) (UL file #E200031), CSA C 22.2/213/EN60079-15 (Zone 2, Category 3), CE (ATEX)

General Specifications Cont'd

Packaging and Protection	SE-MC2U-ST SE-MC2U-SC SE-SW5U SE-SW8U SE-SW5U-ST SE-SW5U-SC SE-SW9U-ST SE-SW9U-SC	UL94VO Lexan, IP30
	SE-SW5U-WT SE-SW8U-WT SE-SW5U-ST-WT SE-SW5U-SC-WT SE-SW9U-ST-WT SE-SW9U-SC-WT	Metal case, IP40

Copper RJ45 Ports: (10/100BaseT)

10/100BaseT ports	Shielded RJ45
Protocols Supported	All standard IEEE 802.3
Ethernet Compliance	IEEE 802.3, 802.3u, 802.3x
Auto-Crossover	Yes, allows you to use straight-through or crossover wired cables
Auto-Sensing Operation	Yes, full and half duplex
Auto-Negotiating	Yes, 10BaseT and 100BaseT
Auto-Polarity	Yes, on the TD and RD pair
Flow Control	Automatic
Ethernet Isolation	1500 VRMS 1 minute
Plug and Play	Yes
Cable Requirements	Twisted pair (Cat5e or better) (shielded recommended)
Max. Cable Distance	100 meters

Fiber Port: (100BaseFX multimode)

|	
100BaseFX Ports	1
Fiber Port Mode	Multimode (mm)
Fiber Port Connector	ST – models SE-XXXX-ST and SE-XXXX-ST-WT SC – models SE-XXXX-SC and SE-XXXX-SC-WT
Optimal Fiber Cable	50/125 or 62.5/125 µm
Center Wavelength	1300 nm
Multimode	Links up to 4 km typ.; > Transmitter power (dBm): -21 min, -17 typ, -14 max > Receiver sensitivity (dBm): -34 typ, -31 max
Nominal Max. Distance (full duplex)	4 km
Ethernet Compliance	100BaseFX
Eye Safety (laser)	IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11

Complete documentation

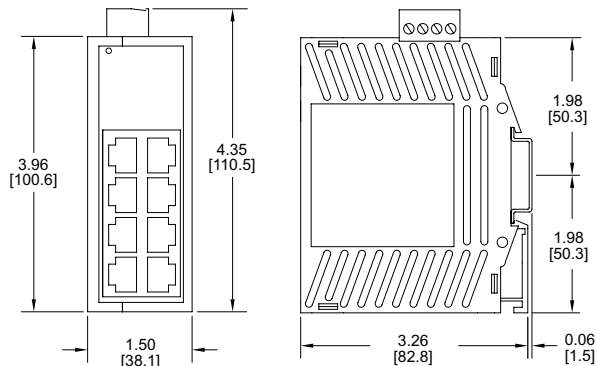Documentation can be downloaded from www.automationdirect.com.

Stride® SE Series Unmanaged Industrial Ethernet Switches and Media Converters
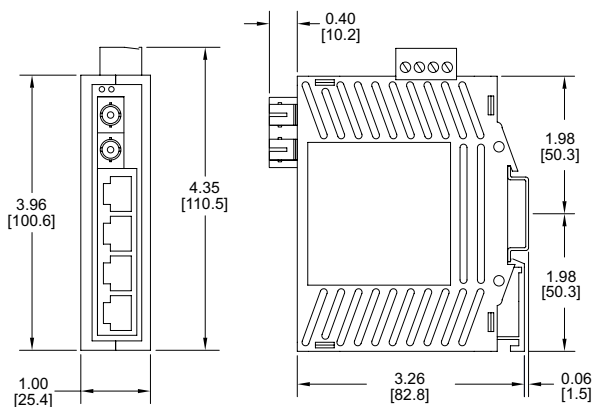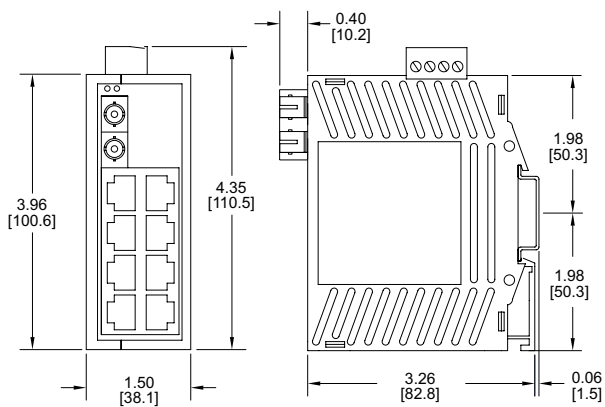
Dimensions

Inches [mm]
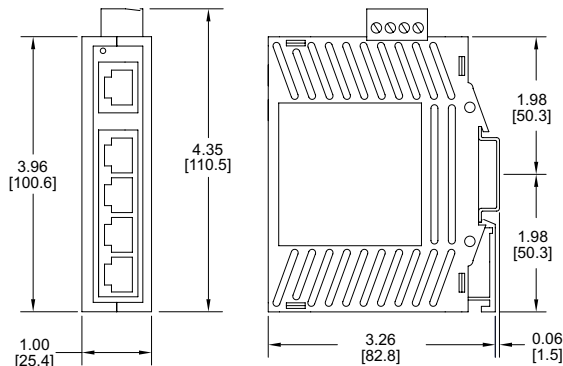
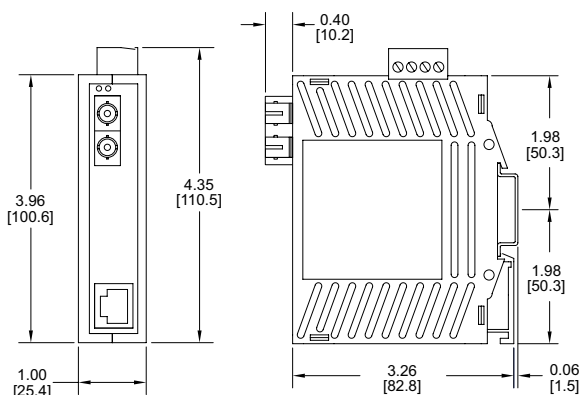**SE-SW5U**

SE-SW8U

SE-SW5U-SC
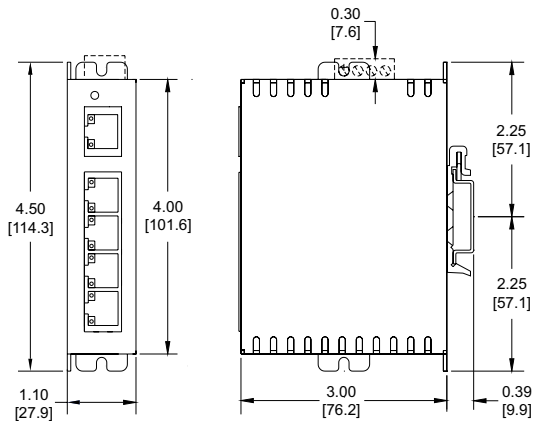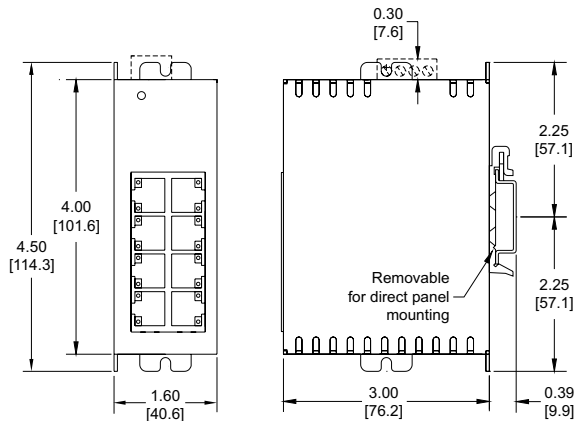**SE-SW5U-ST**

SE-SW9U-SC
SE-SW9U-ST

SE-MC2U-SC
SE-MC2U-ST

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

Stride® SE Series Unmanaged Industrial Ethernet Switches and Media Converters
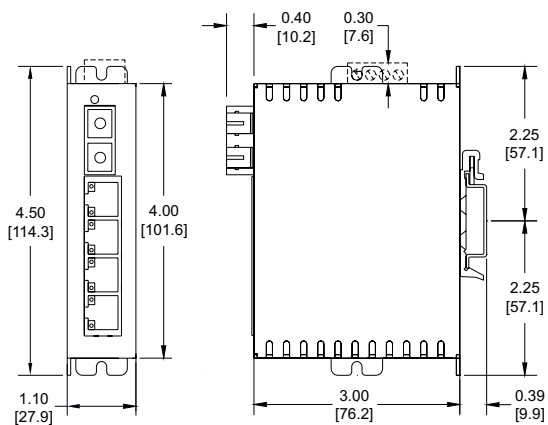
Dimensions

Inches [mm]

SE-SW5U-WT
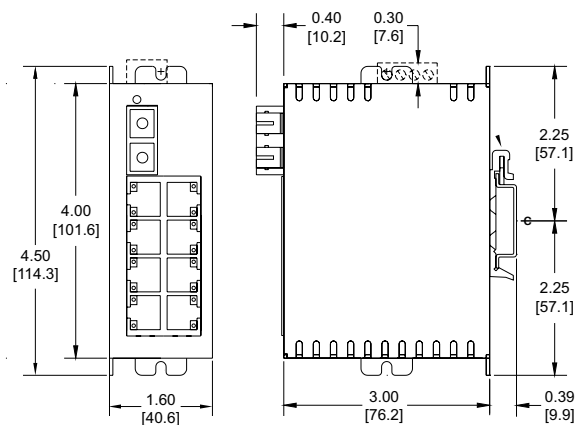
0.30 [7.6]

2.25 [57.1]

2.25 [57.1]

4.50 [114.3]

4.00 [101.6]

1.10 [27.9]

3.00 [76.2]

0.39 [9.9]

SE-SW8U-WT

0.30 [7.6]

2.25 [57.1]

Removable for direct panel mounting

2.25 [57.1]

4.00 [101.6]

4.50 [114.3]

1.60 [40.6]

3.00 [76.2]

0.39 [9.9]

SE-SW5U-SC-WT
SE-SW5U-ST-WT

0.40 [10.2]

0.30 [7.6]

2.25 [57.1]

2.25 [57.1]

4.50 [114.3]

4.00 [101.6]

1.10 [27.9]

3.00 [76.2]

0.39 [9.9]

SE-SW9U-SC-WT
SE-SW9U-ST-WT

0.40 [10.2]

0.30 [7.6]

2.25 [57.1]

2.25 [57.1]

4.00 [101.6]

4.50 [114.3]

1.60 [40.6]

3.00 [76.2]

0.39 [9.9]

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Stride Unmanaged Industrial Ethernet Switches

Features

- Reliable connectivity
- Industrially hardened
- Simple installation

- For detailed specifications on all models, see following pages

	SE Series	SE2 Series DIN Rail	SE2 Series IP65	SE3 Series DIN Rail	SE3 Series IP67
Price					
Broadcast Storm Protection					
	—	✓	—	—	—
Industrial Temperature Ranges					
Standard Temp	-10 to +60°C	-10 to +60°C	—	-10 to +65°C	—
Wide Temp	-40 to +85°C	-40 to +75°C	-40 to +75°C	-40 to +75°C	-40 to +75°C
Port Connectivity					
Port Count	2 to 9	2 to 18	5, 8	5 to 16	5
RJ45 Port Speed	up to 100 Mbps	up to 1000 Mbps	—	up to 1000 Mbps	—
M12 Port Speed	—	—	up to 100 Mbps	—	up to 100 Mbps
Fiber Optic Ports	✓	✓	—	✓	—
PoE+ Ports	—	✓	—	✓	—
SFP Ports	—	✓	—	✓	—
Mounting					
DIN Rail Mount	✓	✓	—	✓	✓
Panel Mount	✓	✓	✓	✓	✓
Input Power					
Redundant Power Inputs	✓	✓	✓	✓	✓
Reverse Polarity Protection	✓	✓	✓	✓	✓
Power LED	✓	✓	✓	✓	✓
Agency Approvals					
UL508 or UL61010	✓	✓	✓	✓	✓
Haz Loc–Class 1 Div 2	✓	✓	—	✓	—
IECEx	✓	—	—	—	—
ATEX Zone 2	✓	—	—	—	—
CE	✓	✓	✓	✓	✓
EN50155 & EN50121	—	—	✓	—	—
Warranty					
	5 years	5 years	5 years	5 years	5 years
Activity, Link & Speed LEDs					
	✓	✓	✓	✓	✓