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   ⟨Ɛx⟩   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-ST-WC → 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)

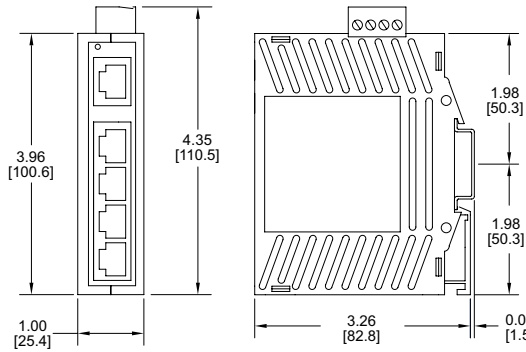|	
100BaseFX Ports	1
Fiber Port Mode	Multimode (mm)
Fiber Port Connector	ST – models SE-XXXX-ST and SE-XXXX-ST-WT SC – models SE-XXXX-SC and SE-XXXX-SC-WT
Optimal Fiber Cable	50/125 or 62.5/125 µm
Center Wavelength	1300 nm
Multimode	Links up to 4 km typ.; > Transmitter power (dBm): -21 min, -17 typ, -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

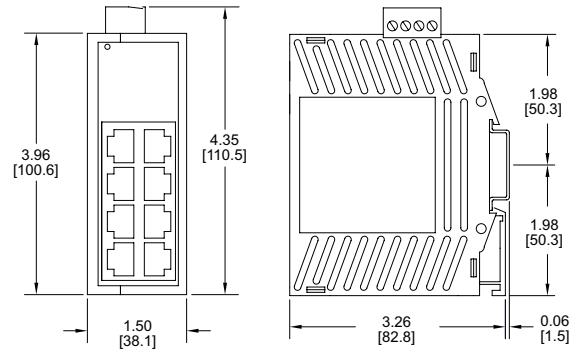*Documentation can be downloaded from*

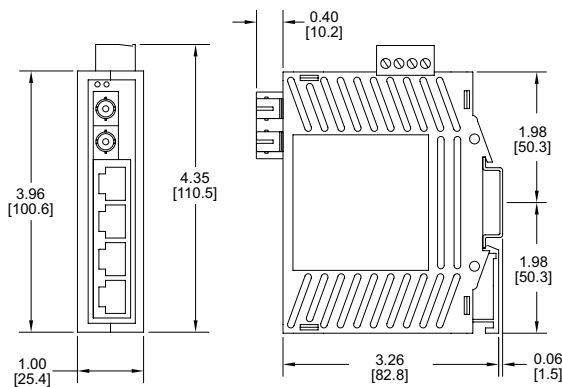# Stride® SE Series Unmanaged Industrial Ethernet Switches and Media Converters
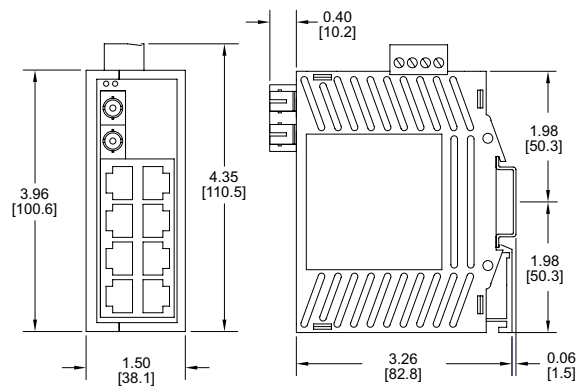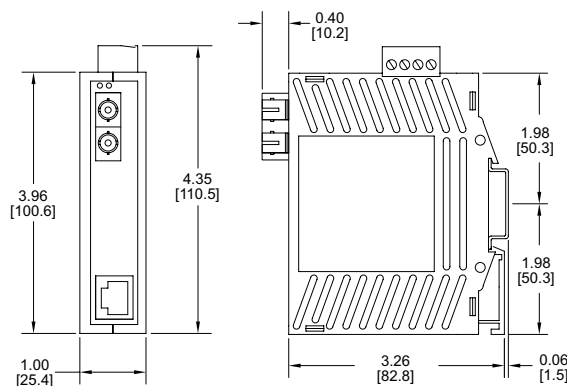
Dimensions

Inches [mm]

SE-SW5U

SE-SW8U

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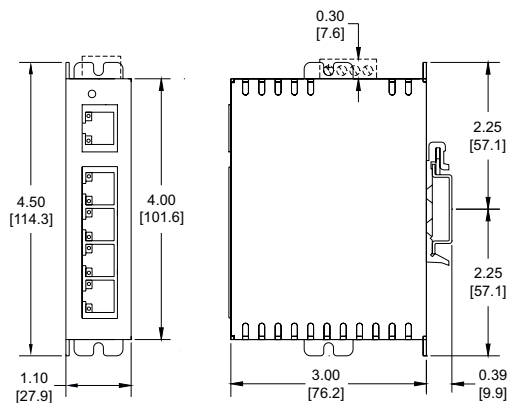**SE-SW5U-ST**

SE-SW9U-SC
SE-SW9U-ST

SE-MC2U-SC
SE-MC2U-ST

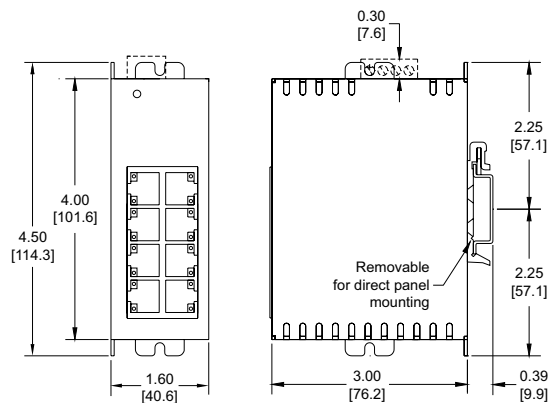*See our website: for complete engineering drawings.*

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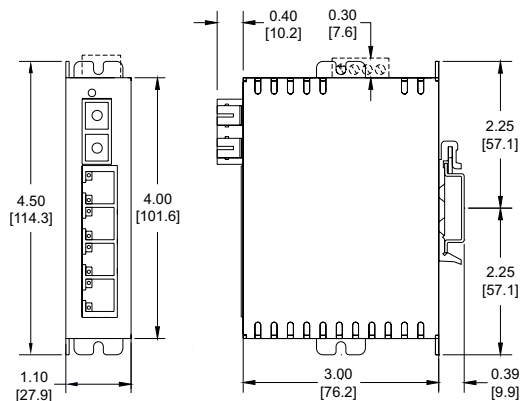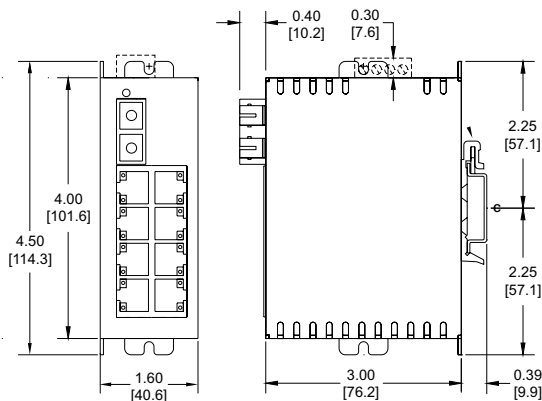
Dimensions

Inches [mm]

SE-SW5U-WT

SE-SW8U-WT

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

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

See our website: for complete engineering drawings.

Stride® Unmanaged Industrial Ethernet Switches

Unmanaged Switches offer:
- Reliable connectivity
- Industrially hardened
- Simple installation

For detailed specifications on all models, see following pages

		SE Series	SE2 Series DIN Rail	SE2 Series IP65
Price				
		starting at $97	starting at $78	starting at $327
Broadcast Storm Protection				
		—	✓	—
Industrial Temperature Ranges				
	Standard Temp	-10 to +60°C	-10 to +60°C	—
	Wide Temp	-40 to +85°C	-40 to +75°C	-40 to +75°C
Port Connectivity				
	Port Count	2 to 9	2 to 18	5, 8
	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	✓	✓	—
	IECEx	✓	—	—
	ATEX Zone 2	✓	—	—
	CE	✓	✓	✓
	EN50155 & EN50121	—	—	✓
Warranty				
		5 years	5 years	5 years
Activity, Link & Speed LEDs				
		✓	✓	✓