

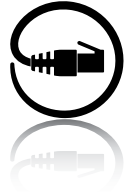
# Stride SE2 Series Unmanaged Industrial Ethernet Switches and Media Converters

## SE2 Series DIN Rail mounted switches



### Features

- Broadcast storm protection
- Wide temp range option
- Optional panel mounting accessory
- 12, 24, 48 VDC & 18-30 VAC redundant input
- GbE models
- Haz Loc
- IP30 metal cases
- 5-year warranty



RoHS Compliant

Stride SE2 Unmanaged Models						
Part Number	RJ45 10/100	RJ45 GbE	Fiber	Input power (max.)	Operating Temp	Agency Approvals
SE2-MC2U-C1-T	1	-	1 SC	3.4 W	-40 to +75°C (-40 to +167°F)	UL/cUL 61010-1 and 61010-2-201, Haz Loc, CE
SE2-MC2U-T1-T	1	-	1 ST			
SE2-SW5U	5	-	-	4.5 W	-10 to +60°C (+14 to +140°F)	
SE2-SW5U-T		-	-			
SE2-SW5UG-T	-	5	-	4.5 W	-40 to +75°C (-40 to +167°F)	
SE2-SW5U-1C1-T	4	-	1 SC	3.4 W	-10 to +60°C (+14 to +140°F)	
SE2-SW5U-1T1-T	4	-	1 ST			
SE2-SW8U	8	-	-	4.6 W	-40 to +75°C (-40 to +167°F)	
SE2-SW8U-T		-	-			
SE2-SW8U-2C1-T	6	-	2 SC	10W	-40 to +75°C (-40 to +167°F)	
SE2-SW8U-2T1-T		-	2 ST			
SE2-SW8UG-T	-	8	-	10W	-40 to +75°C (-40 to +167°F)	
SE2-SW10UG-2P-T	-		2 GbE SFP*			
SE2-SW16U-T	16	-	-	8W		

\* Optional SFP modules sold separately. Use only Gigabit speed SFPs with SE2-SW10UG-2P-T.

### Panel Mounting Brackets

Stride SE2 series DIN-rail mounted switches can be panel mounted with the addition of the optional panel mounting brackets SE2-PM1 or SE2-PM3.

SE2-Series Panel Mounting Brackets	
Part Number	For use with switch model
SE2-PM1	SE2-SW5Ux, SE2-SW8U-x, and SE2-MCx
SE2-PM3	SE2-SWPx, SE2-SW8UG-T, SE2-SW10UG-2P-T, SE2-SW16U-T and all SE2 managed switches



SE-PM1



SE-PM3

# Stride SE2 Series Unmanaged Industrial Ethernet Switches and Media Converters

## SE2 Series DIN Rail mounted switches

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 for SE2-SWxG-T, SE2-SW16U-T 2K
<b>Packet Forwarding Rate</b>	0.75 Mpps - SE2-MC2U-x, SE2-SW5U & SE2-SW5U-x 1.2 Mpps - SE2-SW8U-x 7.4 Mpps - SE2-SW5UG-T 14.9 Mpps - SE2-SW8UG-T & SE2-SW10UG-2P-T 5.7 Mpps - SE2-SW16U-T
<b>Broadcast Storm Protection*</b>	DIP switch enabled (DIP switch I ON)
<b>Jumbo Frame Support</b>	DIP switch enabled for Gigabit Ethernet switches (DIP switch II ON)**
<b>Latency</b>	< 10 µs
<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, EN55022/CISPR22, Class A
<b>EMS</b>	IEC61000-4-2 (ESD): +/- 6kV (contact), +/- 8kV (air) IEC61000-4-3 (RS): 10V/m (80MHz ~ 2GHz) IEC61000-4-4 (EFT): Power Port +/- 2kV; Data Port: +/- 1kV IEC61000-4-5 (Surge): Power Port: +/- 1kV/DM, +/- 2kV/CM; Data Port +/- 1kV (+/- 2kV for 16 and 18 port models) 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, IP30
<b>Hazardous Locations</b>	ANSI/ISA 12.12.01-2015 & CSA 22.2 No. 213-15 (Class I, Div.2) (file #E200031);
<b>Agency Approvals</b>	UL/cUL 61010-1 and 61010-2-201, Class 1, Div. 2, Groups A, B, C, D, (UL file #E200031) CE

\* Broadcast storm threshold value is 2 packets/100ms for 10 Mbps port or 2 packets/10ms for 100 Mbps and 1000 Mbps ports.

\*\* DIP switch II is unused on the 10/100 models.

Front Panel LEDs		
LED	State	Description
<b>PWR1 LED</b>	<b>On</b>	Power 1 connected and operational
	<b>Off</b>	Power 1 no voltage
<b>PWR2 LED</b>	<b>On</b>	Power 2 connected and operational
	<b>Off</b>	Power 2 no voltage
<b>ACT/LNK LED</b>	<b>On</b>	Indicates that there is a proper Ethernet connection (Link) between the port and another Ethernet device, but no communications activity is detected.
	<b>Blinking</b>	Indicates that there is a proper Ethernet connection (Link) between the port and another Ethernet device, and that there is communications activity.
	<b>Off</b>	Indicates that there is not a proper Ethernet connection (Link) between the port and another Ethernet device. Make sure the cable has been plugged securely into the ports at both ends.
<b>Speed LED 10/100 Models</b>	<b>On</b>	A 100 Mbps (100BaseT) connection is detected.
	<b>Off</b>	A 10 Mbps (10BaseT) connection is detected.
<b>Speed LED 10/100/1000 Models</b>	<b>On</b>	A 1000 Mbps (1000BaseT) connection is detected
	<b>Off</b>	A 100 or 10 Mbps (100BaseT or 10BaseT) connection is detected

SC/ST Fiber Port: (100BaseFX multimode)	
<b>Optimal Fiber Cable</b>	50/125 or 62.5/125 µm
<b>Center Wavelength</b>	1300 nm
<b>Multimode</b>	Links up to 4 km typ. > Transmitter power (dBm): -21 min, -17 typ, -14 max > Receiver sensitivity (dBm): -34 typ, -31 max
	<b>Nominal Max. Distance</b>
<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 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

Power Details	
<b>Power Input</b>	Redundant Input Terminals
<b>Input Voltage</b>	Class 2 Power Supply: 12-48 VDC, 18-30VAC 50/60 Hz
<b>Reverse Power Protection</b>	Yes
<b>Power Consumption</b>	Refer to Stride SE2 Series Unmanaged Models table

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	

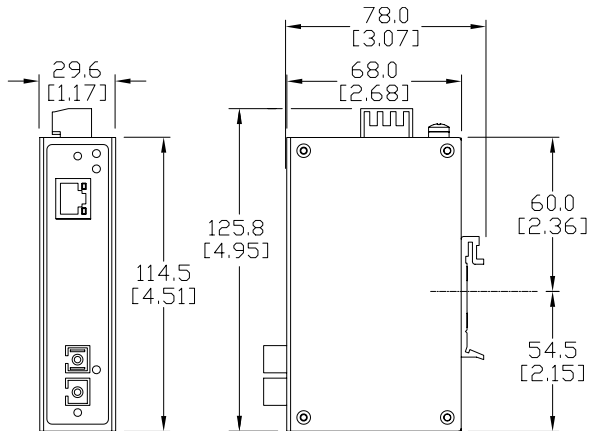
# Stride SE2 Series Unmanaged Industrial Ethernet Switches and Media Converters

## SE2 Series DIN Rail mounted switches

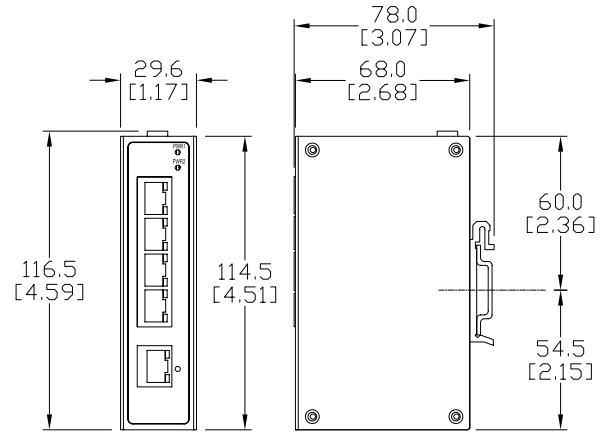
Allow 20mm (0.79") clearance around the switch for cooling

## Dimensions

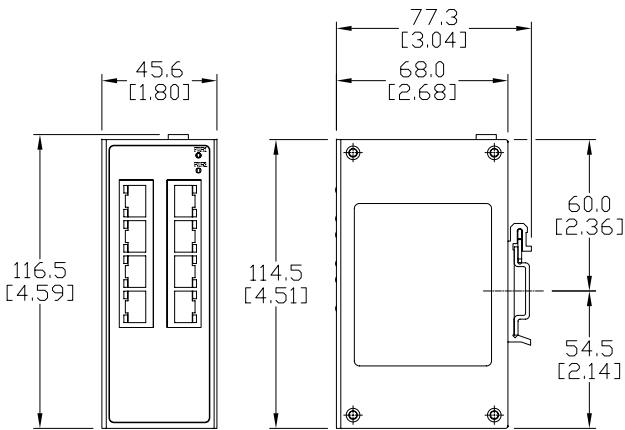
mm [Inches]



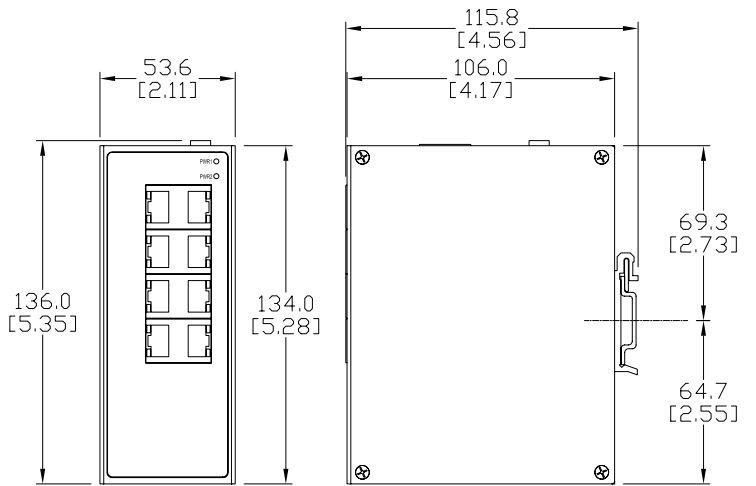
**SE2-MC2U-C1-T**  
**SE2-MC2U-T1-T**



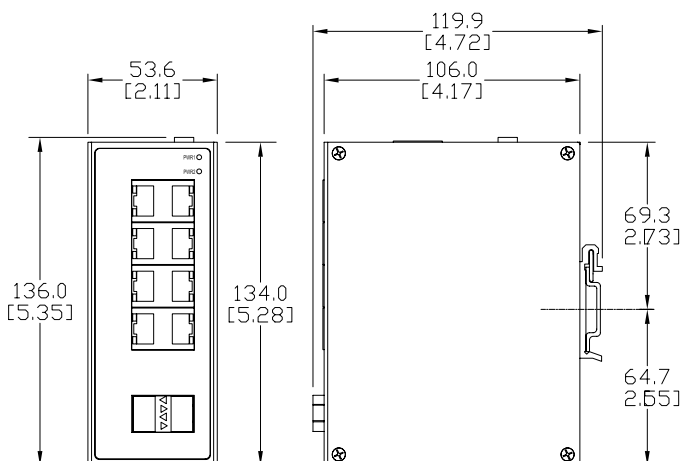
**SE2-SW5U-1C1-T**    **SE2-SW5U**  
**SE2-SW5U-1T1-T**    **SE2-SW5U-T**  
**SE2-SW5UG-T**



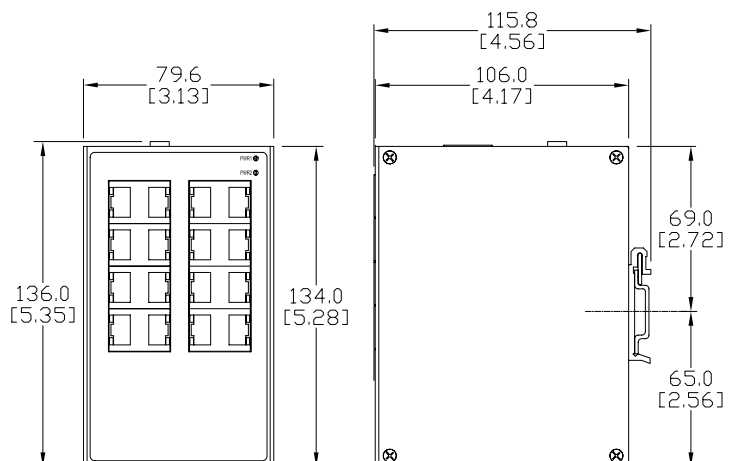
**SE2-SW8U**  
**SE2-SW8U-T**



**SE2-SW8UG-T**



**SE2-SW10UG-2P-T**



**SE2-SW16U-T**

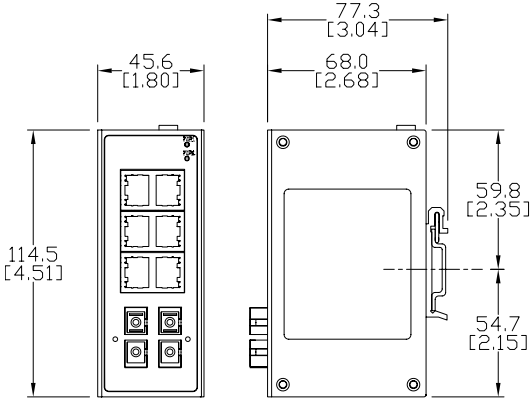
# Stride SE2 Series Unmanaged Industrial Ethernet Switches

## SE2 Series DIN Rail mounted switches

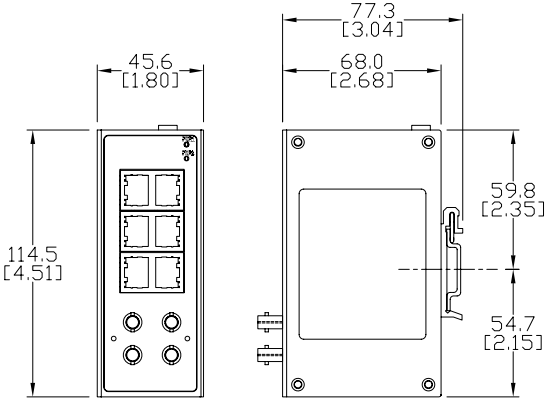
Allow 20mm (0.79") clearance around the switch for cooling

### Dimensions

mm [Inches]



**SE2-SW8U-2C1-T**



**SE2-SW8U-2T1-T**

# Stride SE2 Series Unmanaged Industrial Ethernet Switches

SE2 Series IP65 Rated



## Features

- Rugged IP65 rating
- Tight M12 connections
- Wide temp range
- Panel mount
- 12, 24, 48 VDC and 18-30 VAC redundant input
- Complies with EN50155 and EN50121 industrial standards
- 5-year warranty



RoHS Compliant

Stride SE2 Series IP65 Rated Models

Part Number	M12, IP65 10/100 ports	Input power (max.)	Operating Temp	Agency Approvals
SE2-SW5U-N65-T	5	4.6 W	-40 to +75°C (-40 to +167°F)	UL/cUL 61010-1, UL/cUL 6010-2-201 CE, EN50155, EN50121
SE2-SW8U-N65-T	8			

# Stride SE2 Series Unmanaged Industrial Ethernet Switches

## SE2 Series IP65 Rated

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>	2K
<b>Packet Buffer</b>	1Mbit
<b>Packet Forwarding Rate</b>	1.2 Mpps
<b>Latency</b>	< 10 $\mu$ s
<b>Storage Temperature Range</b>	-40 to +85 °C (-40 to +185 °F)
<b>Humidity (non-condensing)</b>	5 to 95% RH
<b>Pollution Degree</b>	2
<b>Vibration and Shock</b>	IEC60068-2-6, -27, -32
<b>Freefall</b>	IEC60068-2-32
<b>Safety</b>	EN60950-1
<b>EMI Emissions</b>	FCC CFR47 Part 15, EN55022/CISPR22, Class A
<b>EMS</b>	IEC61000-4-2 (ESD): $\pm$ 6kV (contact), $\pm$ 8kV (air) IEC61000-4-3 (RS): 20V/m (80MHz ~ 2 GHz) IEC61000-4-4 (EFT): Power Port $\pm$ 2kV; Data Port: $\pm$ 2kV IEC61000-4-5 (Surge): Power Port: $\pm$ 1kV/DM, $\pm$ 2kV/CM IEC61000-4-6 (CS): 10V (150 kHz ~ 80 MHz) IEC61000-4-8 (Power frequency magnetic field): 50 Hz 100A/m IEC61000-4-9 (Pulsed magnetic field): 300A/m IEC61000-4-29 (Voltage short interruptions): 10ms 100%
<b>RoHS and WEEE</b>	RoHS (Pb free) and WEEE compliant
<b>Packaging and Protection</b>	Metal case, IP65
<b>Agency Approvals</b>	UL/cUL 61010-1 UL/cUL 61010-2-201, (UL file #E157382), CE, EN50155, EN50121

Power Details	
<b>Power Input</b>	Redundant Input M12 connector
<b>Input Voltage</b>	Class 2 Power Supply: 12-48 VDC, 18-30VAC 50/60 Hz
<b>Power Input Ports</b>	M12, male, A-coding, 4-pin
<b>Reverse Power Protection</b>	Yes

M12 Ports	
<b>10/100BaseT ports</b>	M12, female, D-coding, 4-pin
<b>Ethernet Compliance</b>	IEEE 802.3i, 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 Speed</b>	Yes
<b>Flow Control</b>	Automatic
<b>Cable Requirements</b>	Twisted pair (Cat5 or better) (shielded recommended)
<b>Max. Cable Distance</b>	100 meters

*\*Note—M12 caps (ZP-JBH-CAP) need to be used on open (disconnect) ports.*

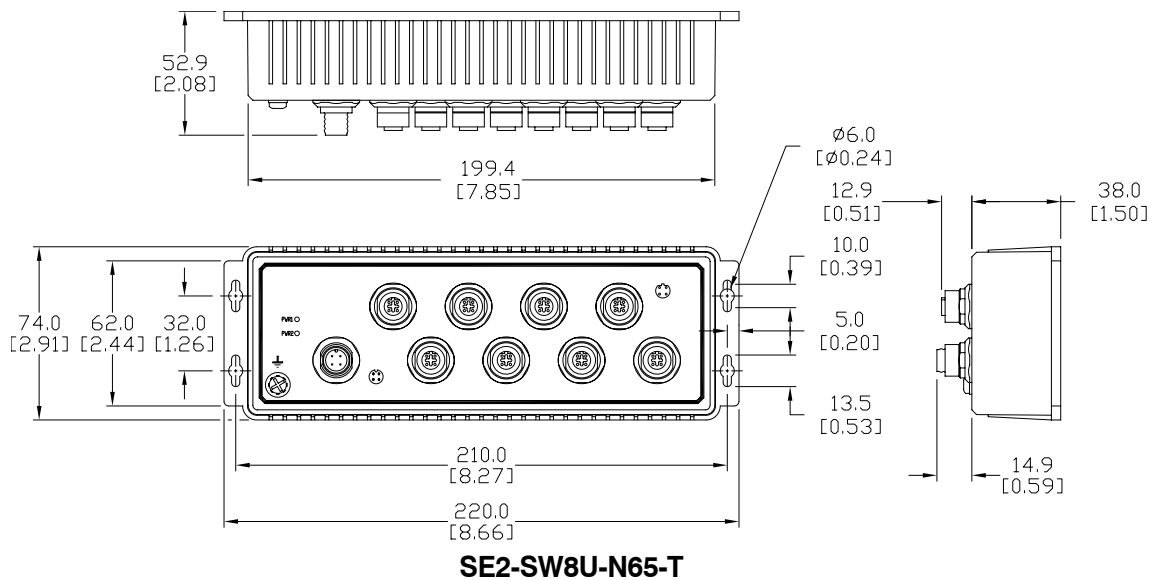
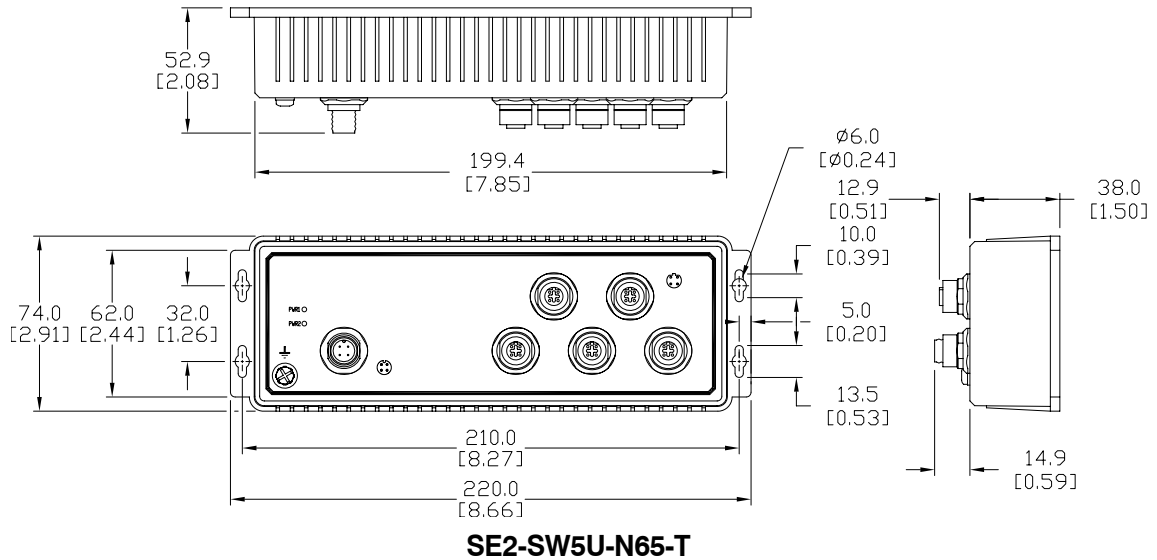
Front Panel LEDs		
LED	State	Description
<b>Power 1 LED</b>	<b>On</b>	Power 1 connected and operational
	<b>Off</b>	Power 1 no voltage
<b>Power 2 LED</b>	<b>On</b>	Power 2 connected and operational
	<b>Off</b>	Power 2 no voltage
<b>Ethernet Port Connection Status LED</b>	<b>On</b>	Ethernet port connected
	<b>Blinking</b>	Ethernet port active
	<b>Off</b>	Ethernet port no connection

# Stride SE2 Series Unmanaged Industrial Ethernet Switches

SE2 Series IP65 Rated

Dimensions

mm [Inches]



# 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
<b>Industrial Temperature Ranges</b>				
	<b>Standard Temp</b>	-10 to +60°C	-10 to +60°C	—
	<b>Wide Temp</b>	-40 to +85°C	-40 to +75°C	-40 to +75°C
<b>Port Connectivity</b>				
	<b>Port Count</b>	2 to 9	2 to 16	5, 8
	<b>RJ45 Port Speed</b>	up to 100 Mbps	up to 1000 Mbps	—
	<b>M12 Port Speed</b>	—	—	up to 100 Mbps
	<b>Fiber Optic Ports</b>	✓	✓	—
	<b>PoE+ Ports</b>	—	✓	—
	<b>SFP Ports</b>	—	✓	—
<b>Mounting</b>				
	<b>DIN Rail Mount</b>	✓	✓	—
	<b>Panel Mount</b>	✓	✓	✓
<b>Input Power</b>				
	<b>Redundant Power Inputs</b>	✓	✓	✓
	<b>Reverse Polarity Protection</b>	✓	✓	✓
	<b>Power LED</b>	✓	✓	✓
<b>Agency Approvals</b>				
	<b>UL508 or UL61010</b>	✓	✓	✓
	<b>Haz Loc-Class 1 Div 2</b>	✓	✓	—
	<b>IECEX</b>	✓	—	—
	<b>ATEX Zone 2</b>	✓	—	—
	<b>CE</b>	✓	✓	✓
	<b>EN50155 &amp; EN50121</b>	—	—	✓
<b>Activity, Link &amp; Speed LEDs</b>				
		✓	✓	✓

TOPCO Control & Automation Ltd.  
14 Bazelet St. Industrial Zone Mitzpe Sapir  
P.O.B 12373 Zur Yigal 4486200 Israel

T: (972)-9-7494000 | F: (972)-9-7494774  
topcoinfo@topco.co.il | www.topco.co.il  
f TopcoControlandAutomation

טופקו בקרה ואוטומציה בע"מ  
רחוב בזלת 14 א. התעשייה מצפה ספיר  
ת.ד. 12373 צור יגאל מיקוד 4486200