### 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

**ξx C E** 

IECEx

**RoHS Compliant** 

RoHS

#### **Plastic Case Switches**

Stride SE Series Unmanaged Models						
Part Number	Price	10/100	Fiber Connector	Input Power	Operating Temp	Agency Approvals
<u>SE-SW5U</u>		5	_	2.0 W		
<u>SE-SW8U</u>		8	-	4.0 W		
<u>SE-SW5U-ST</u>			1 ST	2.0.14	-10 to +60°C	UL/cUL 508,
<u>SE-SW5U-SC</u>		4	1 SC	3.0 W	[+14 to +140°F]	Haz Loc, CE
<u>SE-MC2U-ST</u>			1 ST	2.0.14		
<u>SE-MC2U-SC</u>		1	1 SC	2.0 W		

#### **Metal Case Switches**

Stride SE Series Unmanaged Models						
Part Number	Price	10/100	Fiber Connector	Input Power	Operating Temp	Agency Approvals
<u>SE-SW5U-WT</u>		5	-	2.0 W		
<u>SE-SW5U-ST-WT</u>		4	1 ST	2.0.W		
<u>SE-SW5U-SC-WT</u>		4	1 SC	3.0 W	-40 to +85°C [-40 to +185°F]	UL/cUL 508, Haz Loc,
<u>SE-SW9U-ST-WT</u>		8	1 ST	E 0.14		CE
<u>SE-SW9U-SC-WT</u>		8	1 SC	5.0 W		

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

Gene	ral Specifica	ations	
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		ndant Input Terminals	
	<u>SE-MC2U-ST</u> <u>SE-MC2U-SC</u> <u>SE-SW5U</u> <u>SE-SW5U-WT</u>	2.0 W	
Input Power (typical with all ports active at 100 Mbps)	SE-SW5U-ST SE-SW5U-SC SE-SW5U-ST-WT SE-SW5U-SC-WT	3.0 W	
	<u>SE-SW8U</u>	4.0 W	
	SE-SW9U-ST-WT SE-SW9U-SC-WT	5.0 W	
Input Voltage	10-30 VDC (con	tinuous)–Class 2 Power Supply	
Reverse Power Protection		Yes	
Transient Protection		5,000 watts peak	
Spike Protection		watts (10x for 10 us)	
Ethernet Isolation		00 VRMS 1 minute	
Operating Temperature	<u>SE-MC2U-ST</u> <u>SE-MC2U-SC</u> <u>SE-SW5U</u> <u>SE-SW8U</u> <u>SE-SW5U-ST</u> SE-SW5U-SC	-10 to +60°C [+14 to +140°F], cold startup at -10°C [+14°F]	
Range	SE-SW5U-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 gases 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)		
	(Zone 2,	Calegory 3), CE (ATEX)	

General Specifications Cont'd				
Packaging and Protection	<u>SE-MC2U-ST</u> <u>SE-MC2U-SC</u> <u>SE-SW5U</u> <u>SE-SW8U</u> <u>SE-SW5U-ST</u> <u>SE-SW5U-SC</u>	UL94VO Lexan, IP30		
Frotection	<u>SE-SW5U-WT</u> <u>SE-SW5U-ST-WT</u> <u>SE-SW5U-SC-WT</u> <u>SE-SW9U-ST-WT</u> 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		
<b>Optimal Fiber Cable</b> 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 <u>www.automationdirect.com</u>.

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

Inches [mm]



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

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

Inches [mm]



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# Str/de Unmanaged Industrial Ethernet Switches

#### **Features**

- Reliable connectivity
- Industrially hardened
- Simple installation
- For detailed specifications on all models, see the specific series pages







Price  Industrial Temperature Ranges    Industrial Temperature Ranges  Image Content (14 to 140°F)    Industrial Temperature Ranges  -10 to +60°C (14 to 140°F)    Wide Temp  -10 to +65°C (-40 to +185°F)    Port Councetivity  -    Port Councetivity  2 to 9    Industrial Temperature Ranges  -    Vide Temp  -10 to +60°C (14 to 140°F)    Vide Temp  -10 to +65°C (-40 to +185°F)    Port Councetivity  2 to 9    Industrial Temperature Ranges  -    Mide Temp  -10 to +65°C (-40 to +185°F)    Port Count  2 to 9    Industrial Temperature Ranges  -    Mide Topic Ports  -    Fiber Optic Ports  -    Fiber Optic Ports  -    Fiber Optic Ports  -    SFP Ports  -    Build Mount  √    Panel Mount  √    Power LED  √    Agency Approvals  -    IECEx  √    IECEx	SE3 Series DIN Rail	SE3 Series IP67
—    Industrial Temperature Ranges    Standard Temp    Vide Temp    40 to +60°C [14 to 140°F]    Wide Temp  -40 to +85°C [-40 to +185°F]    Port Connectivity    Port Connectivity    Port Count  2 to 9    RL45 Port Speed  —    Fiber Optic Ports  √    PoE + Ports  —    SFP Ports  —    SFP Ports    DIN Rail Mount  √    Panel Mount  √    Input Power	·	
Industrial Temperature Ranges  -10 to +60°C [14 to 140°F]    Standard Temp  -10 to +60°C [14 to 140°F]    Wide Temp  -40 to +85°C [-40 to +185°F]    Port Connectivity		
Image: standard Temp      -10 to +60°C [14 to 140°F]        Wide Temp      -40 to +85°C [-40 to +185°F]        Port Connectivity      -        Port Count      2 to 9        RJ45 Port Speed      up to 100 Mbps        M12 Port Speed      -        Fiber Optic Ports      √        PoE + Ports      -        SFP Ports      -        Mounting      √        Panel Mount      √        Power      √        Redundant Power Inputs      √        Reverse Polarity Protection      √        Power LED      √        Mage: Approvals      √        IECEx      √        ATEX Zone 2      √        ENS0155 & ENS0121      -        Standard Power Inputs      √	· · · · ·	
Standard Temp10 to +60°C [14 to 140°F]Wide Temp40 to +85°C [-40 to +185°F]Port Counectivity	_	_
Wide Temp-40 to +85°C [-40 to +185°F]Port ConnectivityPort Count2 to 9RJ45 Port Speedup to 100 MbpsM12 Port Speed-Fiber Optic PortsPoE + Ports-SFP Ports-WountingWountingRedundant Power InputsRedundant Power InputsRedundant Power InputsReverse Polarity ProtectionPower LEDULS08 or UL61010Haz Loc-Class 1 Div 2IECExATEX Zone 2CEWarrantyNarranty		
Port Count    2 to 9      RJ45 Port Speed    up to 100 Mbps      M12 Port Speed    -      Fiber Optic Ports    ✓      PoE + Ports    -      SFP Ports    -      Mounting    ✓      DIN Rail Mount    ✓      Panel Mount    ✓      Power    ✓      Redundant Power Inputs    ✓      Reverse Polarity Protection    ✓      Power LED    ✓      UL508 or UL61010    ✓      Haz Loc-Class 1 Div 2    ✓      IECEx    ✓      ATEX Zone 2    ✓      CE    ✓      Warranty    5 years	-10 to +65°C [14 to 149°F]	_
Port Count      2 to 9        RJ45 Port Speed      up to 100 Mbps        M12 Port Speed      -        Fiber Optic Ports      √        PoE + Ports      -        SFP Ports      -        Mounting      -        Mount      √        Panel Mount      √        Panel Mount      √        Panel Mount      √        Reverse Polarity Protection      √        Reverse Polarity Protection      √        Agency Approvals      -        IECEx      √        ATEX Zone 2      √        CE      √        EN50155 & EN50121      -        Marranty      5 years	-40 to +75°C [-40 to +167°F]	-40 to +75°C [-40 to +167°F]
RJ45 Port Speed      up to 100 Mbps        M12 Port Speed      -        Fiber Optic Ports      √        PoE + Ports      -        SFP Ports      -        Mounting      -        Mounting      √        Panel Mount      √        Panel Mount      √        Panel Mount      √        Power      √        Redundant Power Inputs      √        Reverse Polarity Protection      √        Power LED      √        VL508 or UL61010      √        Haz Loc-Class 1 Div 2      √        IECEx      √        ATEX Zone 2      √        EN50155 & EN50121      -        Maranty      5 years		
M12 Port SpeedFiber Optic Ports✓PoE+ PortsSFP Ports-OutnitingDIN Rail Mount✓Panel Mount✓Panel Mount✓Panel Mount✓PowerRedundant Power Inputs✓Reverse Polarity Protection✓Power LED✓Macourt ApprovalsUL508 or UL61010✓Haz Loc-Class 1 Div 2✓IECEx✓ATEX Zone 2✓EN50155 & EN50121-MarantySyears	5 to 16	5
Fiber Optic Ports $\checkmark$ PoE + PortsSFP PortsMountingDIN Rail Mount $\checkmark$ Panel Mount $\checkmark$ Panel Mount $\checkmark$ Redundant PowerRedundant Power Inputs $\checkmark$ Reverse Polarity Protection $\checkmark$ Power LED $\checkmark$ Agency ApprovalsLECEx $\checkmark$ IECEx $\checkmark$ ATEX Zone 2 $\checkmark$ CE $\checkmark$ EN50155 & EN50121 $-$ Warranty	up to 1000 Mbps	
PoE + Ports         SFP Ports         Mounting         Mount      √        Panel Mount      √        Panel Mount      √        Panel Mount      √        Redundant Power      √        Reverse Polarity Protection      √        Power LED      √        Mgency Approvals      √        IECEx      √        ATEX Zone 2      √        CE      √        Kensol 121	_	up to 100 Mbps
SFP Ports       Mountinu      DIN Rail Mount    √      Panel Mount    √      nput Power      Redundant Power Inputs    √      Reverse Polarity Protection    √      Power LED    √      Agency Approvals       UL508 or UL61010    √      Haz Loc-Class 1 Div 2    √      IECEx    √      ATEX Zone 2    √      EN50155 & EN50121    -      Warranty    5 years	$\checkmark$	_
Mounting      DIN Rail Mount    \[      Panel Mount    \[      nput Power    \[      Redundant Power Inputs    \[      Reverse Polarity Protection    \[      Power LED    \[      Agency Approvals    \[      IECEx    \[      ATEX Zone 2    \[      EN50155 & EN50121    -      Marranty    \$[	$\checkmark$	_
DIN Rail Mount $\checkmark$ Panel Mount $\checkmark$ Panel Mount $\checkmark$ nput PowerRedundant Power Inputs $\checkmark$ Reverse Polarity Protection $\checkmark$ Power LED $\checkmark$ Ngency ApprovalsUL508 or UL61010 $\checkmark$ Haz Loc-Class 1 Div 2 $\checkmark$ IECEx $\checkmark$ ATEX Zone 2 $\checkmark$ CE $\checkmark$ ENS0155 & ENS0121 $-$ Warranty $5$ years	$\checkmark$	_
Panel Mount      Impuise        nput Power      Impuise      Impuise        Redundant Power Inputs      Impuise      Impuise        Reverse Polarity Protection      Impuise      Impuise        Power LED      Impuise      Impuise        Igency Approvals      Impuise      Impuise      Impuise        UL508 or UL61010      Impuise      Impuise      Impuise        IECEx      Impuise      Impuise      Impuise        Impuise      Impuise      Impuise      Impuise      Impuise        Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise      Impuise		
Imput Power      Imput Power        Redundant Power Inputs      ✓        Reverse Polarity Protection      ✓        Power LED      ✓        Igency Approvals      ✓        Igency Approvals      ✓        IECEx      ✓        IECEx      ✓        ATEX Zone 2      ✓        CE      ✓        INSO155 & ENS0121      —        Warranty      5 years	$\checkmark$	$\checkmark$
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      -        Marranty      5 years	$\checkmark$	$\checkmark$
Reverse Polarity Protection      Image: Constraint of the second		
Power LED      Image: Constraint of the second seco	$\checkmark$	$\checkmark$
Agency Approvals        UL508 or UL61010      √        Haz Loc-Class 1 Div 2      √        IECEx      √        ATEX Zone 2      √        CE      √        EN50155 & EN50121      −        Warranty      5 years	$\checkmark$	$\checkmark$
UL508 or UL61010    √      Haz Loc-Class 1 Div 2    √      IECEx    √      ATEX Zone 2    √      CE    √      EN50155 & EN50121    −      Warranty    5 years	✓	$\checkmark$
Haz Loc-Class 1 Div 2    √      IECEx    √      ATEX Zone 2    √      CE    √      EN50155 & EN50121    −      Warranty		
IECEx    √      ATEX Zone 2    √      CE    √      EN50155 & EN50121    −      Varranty    5 years	$\checkmark$	√
IECEx    √      ATEX Zone 2    √      CE    √      EN50155 & EN50121    −      Warranty    5 years	✓ (certain models)	_
ATEX Zone 2    √      CE    √      EN50155 & EN50121    −      Warranty    5 years		_
CE      √         EN50155 & EN50121      −         Warranty      5 years	_	_
EN50155 & EN50121  —    Varranty  5 years	✓	✓
Narranty 5 years		
5 years		
	5 years	5 years
ICIVITY, LINK & OPECU LLDS		
✓ ✓ ✓	✓	√