## 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

CE (£x) c(VL)us

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	2.014		
<u>SE-SW5U-SC</u>		4	1 SC	3.0 W	-10 to +60°C [+14 to +140°F]	UL/cUL 508, Haz Loc,
<u>SE-SW9U-ST</u>		8	1 ST	5.0 W		CE
<u>SE-MC2U-ST</u>			1 ST	2.0 W		
<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-SW8U-WT</u>		8	_	4.0 W	-40 to +85°C [-40 to +185°F]	UL/cUL 508, Haz Loc, CE
<u>SE-SW5U-ST-WT</u>		4	1 ST	2.0.14		
<u>SE-SW5U-SC-WT</u>		4	1 SC	3.0 W		
<u>SE-SW9U-ST-WT</u>		8	1 ST	5.0.14		
<u>SE-SW9U-SC-WT</u>		8	1 SC	- 5.0 W		

# Stride SE Series Unmanaged Industrial Ethernet Switches and Media Converters

Devices Supported  Al    Standards  Image: Standards    MAC Addresses  Image: Standards    Memory Bandwidth  Image: Standards    Latency for 10 Mbps ports  Image: Standards    Latency for 100 Mbps  Image: Standards    Latency for 100 Mbps  Image: Standards    Doorts  Image: Standards    Power Input  Image: Standards    Power Input  Image: Standards    Image: Standards	e and forward I IEEE 802.3 d IEEE 16 µs 5 µs	Up to 9 ports wire speed switching, non-blocking compliant devices are supported 802.3, 802.3u, 802.3x 1024 addresses 3.2 Gbps s + frame time (typical)		
Operating Mode    Store      Devices Supported    Al      Standards    Al      MAC Addresses    Al      Memory Bandwidth    Al      Latency for 10 Mbps ports    Al      Latency for 100 Mbps    SE      Doorts    SE      Power Input    SE      Start at 100 Mbps    SE      Sective at 100 Mbps    SE      SE    SE      SE    SE      SE    SE      Sective at 100 Mbps    SE      SE    SE      SE    SE      SE    SE      SE    SE      Sective at 100 Mbps    SE      SE    SE      Sective at 100 Mbps    SE      SE    SE      SE    SE      SE    SE      SE    SE      S	I IEEE 802.3 d IEEE 16 μs 5 μs	wire speed switching, non-blocking compliant devices are supported 802.3, 802.3u, 802.3x 1024 addresses 3.2 Gbps		
Devices Supported  Al    Standards  Image: Standards    MAC Addresses  Image: Standards    Memory Bandwidth  Image: Standards    Latency for 10 Mbps ports  Image: Standards    Latency for 100 Mbps  Image: Standards    Latency for 100 Mbps  Image: Standards    Doorts  Image: Standards    Power Input  Image: Standards    Power Input  Image: Standards    Image: Standards	I IEEE 802.3 d IEEE 16 μs 5 μs	compliant devices are supported 802.3, 802.3u, 802.3x 1024 addresses 3.2 Gbps		
Standards    Image: Standards      MAC Addresses    Image: Standwidth      Latency for 10 Mbps ports    Image: Standards      Latency for 100 Mbps    Image: Standards      Joorts    Image: Standards      Power Input    SE      SE    SE      nput Power    SE      typical with all ports    SE      SE    SE	IEEE 16 µs 5 µs	802.3, 802.3u, 802.3x 1024 addresses 3.2 Gbps		
MAC Addresses    Image: Constraint of the second state of the s	16 µs 5 µs	1024 addresses    3.2 Gbps		
Memory Bandwidth    Image: Second State S	16 µs 5 µs	3.2 Gbps		
atency for 10 Mbps portsatency for 100 Mbps portsatency for 100 Mbps portsPower InputPower InputPower InputSE SE sective at 100 MbpsSE SE-S SE-S SE-Snput Voltagenput VoltageReverse Power Protection Spike ProtectionSelice Protection Sthered Isolation	5 µs			
Latency for 100 Mbpspower InputPower InputPower InputPower InputSE	5 µs	+ frame time (typical)		
power Input    SE      Power Input    SE      Power Input    SE      nput Power    SE      typical with all ports    SE      nctive at 100 Mbps)    SE      SE    SE      nput Voltage    10      Reverse Power Protection    Transient Protection      Spike Protection    SE      Ethernet Isolation    G				
nput Power typical with all ports typical with all ports for tive at 100 Mbps) SE-S SE-S SE-S SE-S SE-S SE-S SE-S SE	Redu	5 µs + frame time (typical)		
nput Power typical with all ports typical with all ports for tive at 100 Mbps) SE-S SE-S SE-S SE-S SE-S SE-S SE-S SE		Indant Input Terminals		
nput Power  SE:    typical with all ports  SE:S    active at 100 Mbps)  SE:S    SE:S  SE:S    nput Voltage  10    Reverse Power Protection  Internet Protection    Spike Protection  Setternet Isolation	<u>-MC2U-ST</u> - <u>MC2U-SC</u> : <u>E-SW5U</u> : <u>SW5U-WT</u>	2.0 W		
nput Voltage 10 Reverse Power Protection 5 Spike Protection 5 Ethernet Isolation 6	- <u>SW5U-ST</u> - <u>SW5U-SC</u> W5U-ST-WT W5U-SC-WT	3.0 W		
SE-S SE-S    nput Voltage  10    Reverse Power Protection  10    Fransient Protection  10    Spike Protection  10    Ethernet Isolation  10	<u>E-SW8U</u> - <u>SW8U-WT</u>	4.0 W		
Reverse Power Protection Transient Protection Spike Protection Ethernet Isolation	- <u>SW9U-ST</u> W9U-ST-WT W9U-SC-WT	5.0 W		
Transient Protection Spike Protection Ethernet Isolation	10-30 VDC (continuous)–Class 2 Power Supply			
Spike Protection Ethernet Isolation	Yes			
Ethernet Isolation	1	5,000 watts peak		
	5,000	) watts (10x for 10 us)		
SE.	15	00 VRMS 1 minute		
SE SE Operating Temperature	-MC2U-ST -MC2U-SC E-SW5U E-SW8U -SW5U-ST -SW5U-SC -SW9U-ST	-10 to +60°C [+14 to +140°F], cold startup at -10°C [+14°F]		
SE-S SE-S SE-S SE-S	SW5U-WT SW8U-WT W5U-ST-WT W5U-SC-WT W9U-ST-WT W9U-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			
/ibration 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			
U 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	<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> <u>SE-SW9U-ST</u>	UL94VO Lexan, IP30	
Frotection	<u>SE-SW5U-WT</u> <u>SE-SW8U-WT</u> <u>SE-SW5U-ST-WT</u> <u>SE-SW5U-SC-WT</u> <u>SE-SW9U-ST-WT</u> <u>SE-SW9U-SC-WT</u>	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 4 km (full duplex)			
Ethernet Compliance	100BaseFX		
Eye Safety (laser)	IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11		

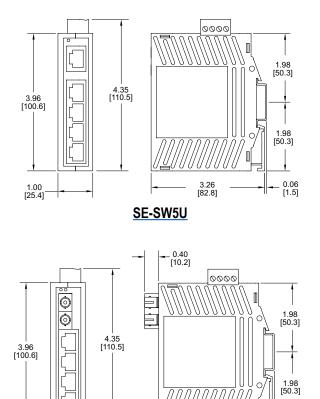
#### **Complete documentation**

Documentation can be downloaded from <u>www.automationdirect.com</u>.

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

Inches [mm]

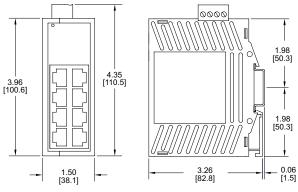
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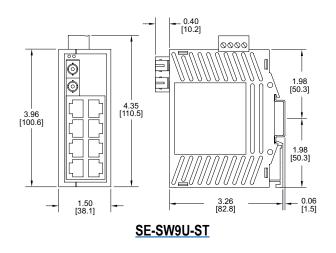
3.26 [82.8]

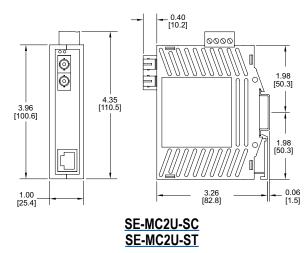
SE-SW5U-SC

SE-SW5U-ST







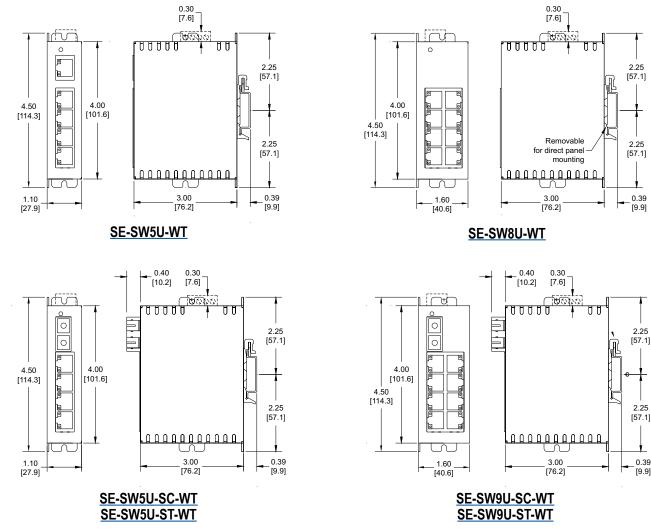


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See our website: www.AutomationDirect.com for complete engineering drawings.

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

Inches [mm]



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

# 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		
✓ ✓ ✓	✓	√