Stride Managed Industrial Ethernet Switches Industrial Hardened Full Feature Layer 2 Switch





• For detailed specifications on all models, see following pages

		SE Series	SE2 Series	
Price				
		starting at \$519.00 (5 port)	starting at Retired (8 port)	
Full Feature Lay	yer 2 Switch			
		\checkmark	\checkmark	
Industrial Temp	perature Ranges			
	Wide Temp	-40 to +75°C	-40 to +75°C	
Ethernet Conne	ctivity			
	RJ45 Ports	up to 1000 Mbps	up to 1000 Mbps	
	Fiber Optic Ports	\checkmark	✓	
	SFP Ports	\checkmark	√	
Port Count				
		5,8,10,16	8,16,18	
Industrial Proto	ocol Management			
	Modbus TCP	Read	Full Management	
	EtherNet/IP	_	Full Full Management	
Network Redun	ndancy			
	STP/RSTP	\checkmark	\checkmark	
	Proprietary Fast Recovery	Real-Time Ring	AD-Ring/AD-RP	
Mounting				
	DIN Rail Mount	\checkmark	\checkmark	
	Panel Mount	Integrated	Optional accessory	
Input Power				
	Redundant Power Inputs	\checkmark	\checkmark	
	Reverse Polarity Protection	\checkmark	\checkmark	
	Power LED	\checkmark	√	
	Power Alarm	\checkmark	✓	
Agency Approv	als			
	UL508 / 61010	\checkmark	√	
	Haz Loc–Class 1 Div 2	√	√	
	ATEX Zone 2	 ✓	- ·	
	CE	 ✓	✓	
		•	• •	
Warranty				

Stride SE2 Series Managed Industrial Ethernet Switches









RoHS Compliant

Stride SE2 Series Managed Models				
Part Number	Price	Ethernet Ports	Fiber Ports	Input Power (max)
SE2-SW8M	Retired	8	-	8.1 W
SE2-SW8M-2C1	\$648.00	6	2 SC	8.1 W
<u>SE2-SW16M</u>	Retired	16	-	18W
SE2-SW18MG-2P	Retired	16, 2 GbE combo	2 GbE SFP combo*	IOVV

CE

*Optional SFP modules sold separately.

Features

- Modbus TCP management capability
- EtherNet/IP management capability
- Wide temp range
- DIN-rail mount with optional panel mount accessory
- Metal housing
- 12, 24 VDC redundant input
- Gigabit Ethernet (GbE) models
- Haz Loc
- 5-year warranty

Panel Mounting Brackets

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

SE2-Series Panel Mounting Brackets		
Part Number	Price	For use with switch model
<u>SE2-PM1</u>	Retired	SE2-SW5Ux, SE2-SW8U-x, and SE2-MCx
<u>SE2-PM3</u>	Retired	SE2-SWPx, <u>SE2-SW8UG-T,</u> <u>SE2-SW16U-T, SE2-SW18U-2G-T</u> and all SE2 managed switches



Str/deSE2 Series Managed Industrial Ethernet Switches

Specifications

General Specifications		
Operating Mode	Store and forward wire speed switching, non- blocking	
Devices Supported	All IEEE 802.3 compliant devices are supported	
MAC Addresses	8K	
Ethernet Protocols Supported	SNMPv1 / v2 / v3, RMON, DHCP, SNTP, TFTP, STP, RSTP, QoS / DS, IGMPv1 / v2, VLAN (tag and port based), HTTP, HTTPS (SSL and TSL), Telnet, SSH and more	
Industrial Protocols Supported	Modbus TCP, EtherNet/IP, PROFInet, Foundation Fieldbus HSE and others	
Packet Forwarding Rate	1.4 Mpps – <u>SE2-SW8M</u> 1.4 Mpps– <u>SE2-SW8M-2C1</u> 5.4 Mpps– <u>SE2-SW16M</u> 5.4 Mpps– <u>SE2-SW18MG-2P</u>	
Latency	< 10 µs	
Operating Temperature Range	-40 to +75°C [-40 to +167°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	
Vibration, Shock & Freefall	IEC60068-2-6, -27, -32	
EMI Emissions	FCC CFR47 Part 15, EN55032/CISPR32, Class A	
EMS	IEC61000-4-2 (ESD): ± 8kV (contact), ± 15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz ~ 2GHz) IEC61000-4-4 (EFT): Power Port ± 4kV; Data Port: ± 2kV IEC61000-4-5 (Surge): Power Port: ± 2kV/DM, ± 4kV/CM; Data Port ± 2kV IEC61000-4-6 (CS): 10V (150kHz ~ 80MHz)	
RoHS and WEEE	RoHS (Pb free) and WEEE compliant	
Packaging and Protection	Metal case, IP40	
Hazardous Locations	ANSI/ISA 12.12.01-2015 & CSA22.2 No. 213-15 (Class I, Div.2) (file #E200031)	
Agency Approvals	UL/cUL 508, CE	

SC or ST Fiber Port: (100BaseFX multimode)		
100BaseFX Ports	2	
Fiber Port Connector	ST or SC, by model	
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	
Eye Safety (laser)	IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11	

RJ45 Ports		
Port Type Shielded RJ45		
Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab, 802.3z for Gigabit Ethernet	
Auto-Crossover	Yes, allows you to use straight-through or crossover wired cables	
Auto-Sensing Operation	Yes, full and half duplex	
Auto-Negotiating Speed	Yes	
Flow Control	Automatic	
Cable Requirements	Twisted pair (Cat5e or better) (shielded recommended)	
Max. Cable Distance	100 meters	

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
Console ports: USB

Gulisule puris. USD		
Management Interfaces	Browser, Text (Telnet and SSH), CLI (command line interface) and SNMP (see the user manual for	
	supported MIBs)	

Power Details		
Power Input	Redundant Input Terminals	
Input Voltage	Class 2 Power Supply: 12-24 VDC	
Reverse Power Protection	Yes	
Wire Size and Torque	18-12 AWG, max wire length 3m [9.84 ft]; Wire strip length 7mm; Torque: 3.5 lb⋅in [0.4 N⋅m]	
Power Consumption	Refer to Stride SE2 Series Managed Models table	

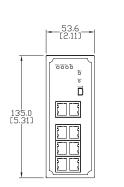
Stride SE2 Series Managed Industrial Ethernet Switches

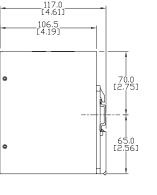
SE2 Series DIN Rail mounted switches

Dimensions

mm [inches]

Allow 20mm [0.79"] clearance around the switch for cooling





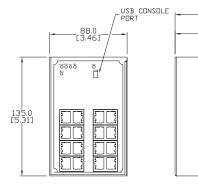
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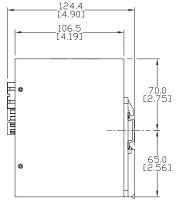
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SE2-SW8M



SE2-SW16M

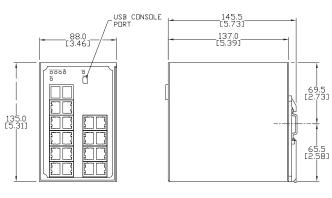
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SE2-SW8M-2C1

USB CONSOLE

PORT



SE2-SW18MG-2P

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

StrideSE Series Managed Switches



Features

- Modbus TCP read capability
- Wide temp range
- DIN-rail mount with integrated panel mount option
- Metal housing

• 5 -year warranty

- 12, 24 VDC redundant input
- Gigabit Ethernet (GbE) models
- Haz Loc



c UL us RoHS

RoHS Compliant



Stride SE Series Managed Models				
Part Number	Price	Ethernet Ports	Fiber Ports	Input Power (max)
<u>SE-SW5M</u>	\$519.00	5	-	3.6 W
SE-SW5M-2SC	\$953.00	3	2 SC	5.6 W
SE-SW5M-2ST	\$953.00	3	2 ST	0.C
SE-SW8M	Retired	8	-	4.3 W
SE-SW8M-2SC	Retired	6 2 SC 2 ST	2 SC	6.3 W
SE-SW8M-2ST	Retired		2 ST	0.3 W
<u>SE-SW8MG-4P</u>	Retired	4 GbE, 4 GbE combo	4 GbE SFP combo*	15W
SE-SW10MG-2P	\$1,529.00	7, 1 GbE, 2 GbE combo	2 GbE SFP combo*	7).0/
SE-SW16M	\$1,299.00	16	_	7W

*Optional SFP modules sold separately.

Stride SE Series Managed Industrial Ethernet Switches

Specifications

General Specifications		
Ethernet Switch Type	Industrial Ethernet managed switch with 5 or 8 ports	
Operating Mode	Store and forward wire speed switching, non-blocking. Broadcast and multicast storm protection	
Devices Supported	All IEEE 802.3 compliant devices are supported	
Ethernet Compliance	IEEE 802.3 (10Mbps Ethernet supports legacy devices) IEEE 802.3u (Fast Ethernet 100Mbps for newer devices) IEEE 802.3x (Full-Duplex with Flow Control) IEEE 802.1D/w (Rapid Spanning Tree for redundant rings and Spanning Tree for interoperability) IEEE 802.1p (Priority Queuing – QoS, CoS, ToS/DS) IEEE 802.1Q (VLAN for traffic segregation) IEEE 802.3ab	
Ethernet Protocols Supported	SNMPv1 / v2 / v3, RMON, DHCP, SNTP, TFTP, STP, RSTP, QoS / CoS / ToS / DS, IGMPv1 / v2, VLAN (tag and port based), HTTP, HTTPS (SSL and TSL), Telnet, SSH and more	
Industrial Protocols Supported	Modbus / TCP, EtherNet / IP, PROFInet, Foundation Fieldbus HSE and others	
MAC Addresses	2048 addresses	
Memory Bandwidth	3.2 Gbps	
Latency (typical)	10M ports 16 μ s + frame time 100M & 1000M ports 5 μ s + frame time	
Transient Protection	15,000 watts peak	
Spike Protection	5,000 watts (10x for 10 µs)	
Ethernet Isolation	1500 VRMS 1 minute	
Operating Temperature Range	-40 to +75°C (cold startup at -40°C), -40 to +167°F (cold startup at -40°F)	
Storage Temperature Range	-40 to +85°C [-40 to +185°F]	
Humidity (non-condensing)	5 to 95% RH	
Environmental Air	For use in Pollution Degree 2 environment. No corrosive gases permitted	
Vibration and shock	IEC60068-2-6 and -27	
EMI Emissions	FCC part 15, ICES-003, EN61000-6-4	
EMC Immunity	IEC61000-6-2, CE	
Eye Safety (fiber models)	IEC60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11	
RoHS and WEEE	RoHS and WEEE compliant	
Packaging and Protection	Metal case; IP40	
Agency Approvals	Electrical safety: UL Haz Loc (Class 1, Div 2, Group A, B, C, D) E200031 CSA C22.2/14; EN61010-1, CE, Marine and offshore rated per ABS	

Power Details		
Power Input	Redundant input terminals	
Input Voltage	10-30 VDC (continuous)–Class 2 Power Supply	
Reverse Power Protection	Yes	
<i>"OK" Output Indicates Power and Operational Status</i>	Voltage same as switch input voltage Maximum current output 0.5 Amp	
Power Consumption	Refer to Stride SE Series Managed Models table	

RJ45 Ports			
Port Type	Shielded RJ45		
Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab, 802.3z for Gigabit Ethernet		
Auto-Crossover	Yes, allows you to use straight-through or crossover wired cables		
Auto-Sensing Operation	Yes, full and half duplex		
Auto-Negotiating Speed	Yes		
Flow Control	Automatic		
Cable Requirements	Twisted pair (Cat5e or better) (shielded recommended)		
Max. Cable Distance	100 meters		

SC or ST Fiber Port: (100BaseFX multimode)			
100BaseFX Ports	2		
Fiber Port Connector	ST or SC, by model		
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		
Eye Safety (laser)	IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11		

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SFP (pluggable) ports accept Mini-GBIC (SFP) transceivers with a speed of 1000Mbps or 100Mbps

See SFP datasheet for optional fiber transceiver specification

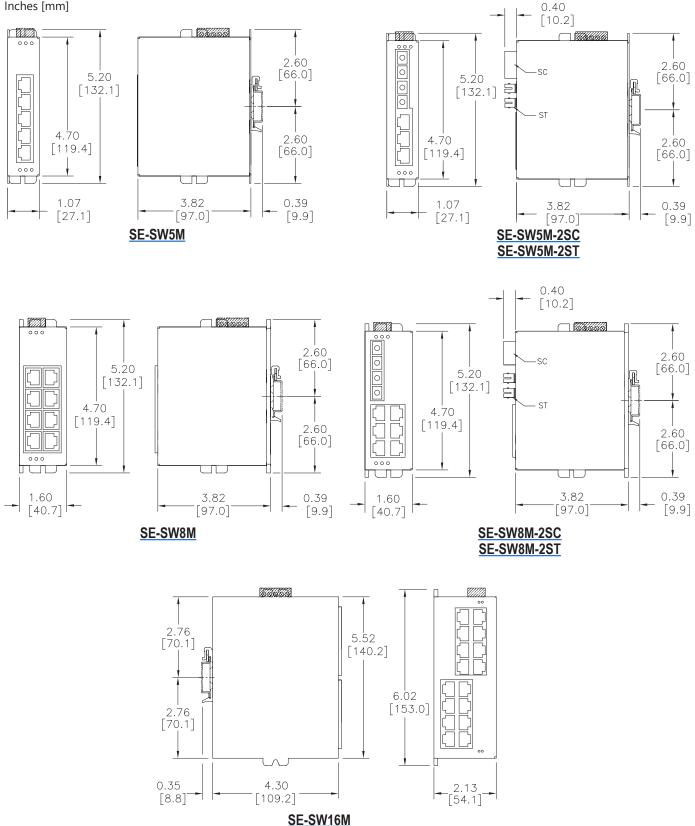
Console ports: USB and RS232 (RJ45)	

	Browser, Text (Telnet and SSH), CLI (command
Management Interfaces	line interface) and SNMP (see the user manual for
-	supported MIBs)

Stride SE Series Managed Industrial Ethernet Switches

Dimensions

Inches [mm]

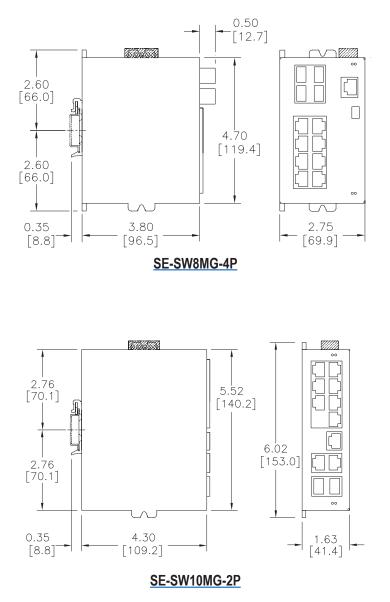


See our website: www.AutomationDirect.com for complete engineering drawings.

Str/deSE Series Managed Industrial Ethernet Switches

Dimensions

Inches [mm]



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

Str/de Industrial Ethernet Fiber Transceivers Fast Ethernet

Description:

STRIDE 100Mb Small Form Factor Pluggable (SFP) transceiver modules (Transmit/Receive). Hot Swappable. 1310nm wavelength. Data transmission up to 4km multimode fiber (SFP-4K-FMF) or 30km singlemode fiber (SFP-30K-FSF). LC duplex receptacle, SFP Multi-Source Agreement compliant.



NOTE: Port speed settings for the Stride switch must be manually set to 100 Mbps.

Part Number	Mode	Light Source	Max Trans. Distance	Price
SFP-4K-FMF	Multi-mode		4km	\$49.00
<u>SFP-30K-FSF</u>	Single- mode	1310 nm, FP	30 km	\$44.00
Note: Use only Gigabit speed SFPs with SE2-SW10UG-2P-T				

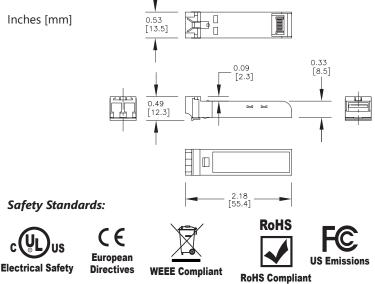
Transmitter Optical characteristics					
Parameter (unit)		Minimum	Typical	Maximum	
Output optical	SFP-4K-FMF	-9		0	
power (dBM)	SFP-30K-FSF	-15		-8	
Extinction	SFP-4K-FMF	8.2			
Ratio (dB)	SFP-30K-FSF	0.2			
Center	SFP-4K-FMF		1310	1200	
Wavelength (nm)	SFP-30K-FSF	1261		1360	
Spectral width -	SFP-4K-FMF			7	
RMS (nm)	SFP-30K-FSF			4	
Rise / Fall Time -	SFP-4K-FMF			0	
10% - 90% (ns)	SFP-30K-FSF			2	



General Specifications			
Connector Type Type LC connector with bail latch			
Operating Tem range	perature	-40 to +85 °C [-40 to +185 °F]	
Storage tempe	rature range	-40 to +85 °C [-40 to +185 °F]	
Humidity (non-	-condensing)	5 to 95% RH	
Link Speed		Gigabit Ethernet	
Laser Type		FP laser diode (Class 1 laser safety standard IEC 60825 compliant)	
Media	SFP-4K-FMF	Multi-mode Fiber	
weula	SFP-30K-FSF	Single-mode Fiber	
Fiber	SFP-4K-FMF	62.5 / 125 μm	
Fiber	SFP-30K-FSF	9 / 125 µm	
Code	SFP-4K-FMF	FX5	
Code	SFP-30K-FSF	100LX	
Distance	SFP-4K-FMF	4km	
Distance	SFP-30K-FSF	30 km	
	SFP-4K-FMF	125Mbps IEEE802.3u 100BASE-FX compliant 125Mbps FDDI ISO/IEC 9314-1 compliant	
Compliances	SFP-30K-FSF	125Mbps IEEE802.3ah 100BASE-LX10 compliant 155Mbps ITU-T G957 STM S-1.1/L-1.1 compliant 155Mbps SONET OC-3 IR-1/LR-1 compliant	
Inputs / Outpu	ts	AC-coupled differential inputs and outputs	

Receiver Optical characteristics					
Parameter (unit)		Minimum	Maximum		
Consitivity (dBm)	SFP-4K-FMF		-30		
Sensitivity (dBm)	SFP-30K-FSF		-34		
Operating	SFP-4K-FMF	4000	1620		
Wavelength (nm)	SFP-30K-FSF	1260	1020		
Loss of Signal -	SFP-4K-FMF		-30		
Deasserted (dBm)	SFP-30K-FSF		-35		
Loss of Signal -	SFP-4K-FMF	-45			
Asserted (dBm)	SFP-30K-FSF	-45			
Loss of Signal -	SFP-4K-FMF	0.5			
Hysteresis (dB)	SFP-30K-FSF	0.5			

Dimensions



Communication Products

tCMP-9

Str/de Industrial Ethernet Fiber Transceivers Gigabit Ethernet

Description:

STRIDE Gigabit (1.25GB) Small Form Factor Pluggable (SFP) transceiver module (Transmit/Receive). Hot Swappable. Short or long wavelength of 850nm or 1310nm, dependant on model. Supports data transmission up to 550 meters, 2km, 10 km, or 30 km on a single-mode or multi-mode fiber, dependant on model. LC duplex receptacle, SFP Multi-Source Agreement compliant.

Part Number	Mode	Light Source	Max Trans. Distance	Price
SFP-500-GMF	Multi-mode	850 nm, VCSEL	550m	\$39.00
SFP-2K-GMF	wuuu-mode	1310 nm. FP	2km	\$69.00
SFP-10K-GSF	Single-	1310 nm, FP	10 km	\$39.00
SFP-30K-GSF	mode	1310 nm, DFB	30 km	\$99.00

Note: Use only Gigabit speed SFPs with SE2-SW10UG-2P-T

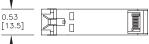
Transmitter Optical characteristics						
Parameter (unit)		Minimum	Typical	Maximum		
	SFP-500-GMF	-9.5		-4		
Output optical	SFP-2K-GMF	-9		-1		
power (dBM)	SFP-10K-GSF	-9.5		-3		
	SFP-30K-GSF	-2	1	3		
	SFP-500-GMF					
Extinction Ratio	SFP-2K-GMF					
(dB)	SFP-10K-GSF	9				
	SFP-30K-GSF					
	SFP-500-GMF	830	850	860		
Center Wavelength	SFP-2K-GMF	1270		1355		
(nm)	SFP-10K-GSF	1285	1310	1343		
	SFP-30K-GSF	1270	1	1355		
	SFP-500-GMF			0.85		
Spectral width -	SFP-2K-GMF			4		
RMS (nm)	SFP-10K-GSF			2.8		
	SFP-30K-GSF			1		
	SFP-500-GMF					
Rise / Fall Time -	SFP-2K-GMF			260		
20% - 80% (ps)	SFP-10K-GSF	1		260		
(1)	SFP-30K-GSF	1				

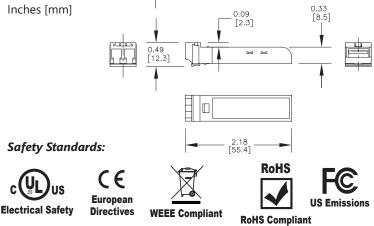
Receiver Optical characteristics					
Parameter (unit)		Minimum	Maximum		
· · · · ·	SFP-500-GMF		-17		
Compitivity (dDm)	SFP-2K-GMF		-19		
Sensitivity (dBm)	SFP-10K-GSF		-20		
	SFP-30K-GSF		-23		
	SFP-500-GMF	770	860		
Operating	SFP-2K-GMF	1260	1610		
Wavelength (nm)	SFP-10K-GSF	1270	1355		
J	SFP-30K-GSF	1270	1580		
	SFP-500-GMF				
	SFP-2K-GMF	12			
Return Loss (dB)	SFP-10K-GSF				
	SFP-30K-GSF				
	SFP-500-GMF		-17.5		
Loss of Signal -	SFP-2K-GMF		-19		
Deasserted (dBm)	SFP-10K-GSF		-20		
	SFP-30K-GSF		-23		
	SFP-500-GMF				
Loss of Signal -	SFP-2K-GMF	-35			
Asserted (dBm)	SFP-10K-GSF	-30			
	SFP-30K-GSF				
	SFP-500-GMF				
Loss of Signal -	SFP-2K-GMF	0.5			
Hysteresis (dB)	SFP-10K-GSF				
	SFP-30K-GSF				



General Specifications					
Connector Typ	e	Type LC connector with bail latch			
Operating Temperature range		-40 to +85 °C [-40 to +185 °F]			
Storage temperature range		-40 to +85 °C [-40 to +185 °F]			
Humidity (non	-condensing)	5 to 95% RH			
Link Speed		Gigabit Ethernet			
	SFP-500-GMF	VCSEL laser diode (Class 1 laser safety standard IEC 60825 compliant)			
	SFP-2K-GMF	FP laser diode			
Laser Type	SFP-10K-GSF	(Class 1 laser safety standard IEC 60825 compliant)			
	SFP-30K-GSF	DFB laser diode (Class 1 laser safety standard IEC 60825 compliant)			
	SFP-500-GMF SFP-2K-GMF	Multi-mode Fiber			
Media	SFP-10K-GSF SFP-30K-GSF	Single-mode Fiber			
Fiber	SFP-500-GMF SFP-2K-GMF	50 / 125 μm and 62.5 / 125 μm			
	SFP-10K-GSF SFP-30K-GSF	9 / 125 µm			
	SFP-500-GMF	SX			
	SFP-2K-GMF	SX2			
Code	SFP-10K-GSF	LX			
	SFP-30K-GSF	lhx			
	SFP-500-GMF	550m			
Distance	SFP-2K-GMF	2km			
Distance	SFP-10K-GSF	10 km			
	SFP-30K-GSF	40 km			
0	SFP-500-GMF	1.0625Gbps Fiber Channel FC-PI 100-M5-SN-I compliant 1.0625Gbps Fiber Channel FC-PI 100-M6-SN-I compliant 1.25Gbps IEEE 802.3z 1000BASE-SX compliant 1.25Gbps IEEE 802.3ah 1000BASE-SX compliant			
Compliances	SFP-2K-GMF	IEEE 802.3 1000BASE-SX+ compliant			
	SFP-10K-GSF	1.0625Gbps Fiber Channel FC-PI 100-SM-LC-L compliant 1.25Gbps IEEE 802.3 1000BASE-LX compliant			
-	SFP-30K-GSF	1.25Gbps Gigabit Ethernet compliant			
Inputs / Outpu		AC-coupled differential inputs and outputs			

Dimensions





www.automationdirect.com

Communication Products

tCMP-10

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 \$129.00	starting at Retired	starting at Retired
Broadcast Storm F	Protection			
		—	\checkmark	_
Industrial Tempera	ature 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	\checkmark	\checkmark	_
	PoE+ Ports	-	\checkmark	_
	SFP Ports	-	√	_
Mounting				
	DIN Rail Mount	√	\checkmark	_
	Panel Mount	√	√	\checkmark
Input Power				
	Redundant Power Inputs	\checkmark	\checkmark	\checkmark
	Reverse Polarity Protection	√	\checkmark	\checkmark
	Power LED	√	\checkmark	\checkmark
Agency Approvals				
	UL508 or UL61010	√	\checkmark	√
	Haz Loc–Class 1 Div 2	√	\checkmark	_
	IECEx	√	_	_
	ATEX Zone 2	√ 	_	_
	CE		✓	√
	EN50155 & EN50121	-	-	 ✓
Warranty				•
		5 years	5 years	5 years
Activity, Link & Sp	eed LEDs	-		-
		√	√	\checkmark
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Stride Power Over Ethernet Switches SE2 Series Unmanaged Industrial

SE2 Series PoE+ DIN Rail mounted switch



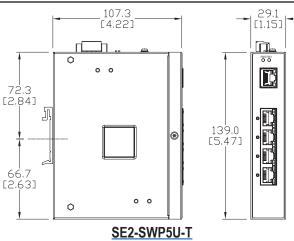


Features

- Full PoE+ on four ports (30W on each port)
- Broadcast storm protection
- Wide temp range
- Optional panel mounting accessory (SE2-PM3)
- Power over Ethernet
- Redundant power input
- Haz Loc
- IP30 metal cases
- 5-year warranty



KORS COMPILAR							
	Stride SE2 Unmanaged PoE + Models						
Part Number	Price	RJ45 10/100	RJ45 GbE	RJ45 10/100 PoE+	RJ45 GbE PoE+	Operating Temp	Agency Approvals
<u>SE2-SWP5U-T</u>	Retired	1	_	4	_	-40 to +75°C [-40 to +167°F]	UL/cUL UL/cUL 61010-1, Class 1, Div. 2, Groups A, B, C, D, (UL file #E200031) CE
	PoE+ Details						
Max Power per Port		30W at 48-58 VDC 720mA V+ pins 1, 2 V- pins 3, 6					
Power Input		54-58 VDC for PoE+ 48-58 VDC for PoE					
PD (Powered Device) Detection		Yes - the switch port will detect the presence of a PoE enabled device before sending power. If a non-PoE device is detected, power will not be sourced on that port but Ethernet communications will be permitted.					
PoE Overload Protect	Yes						
Reverse Protection		Yes					
Redundancy Protection	on	Yes					



Stride SE2 Series Unmanaged Industrial Power Over Ethernet Switches SE2 Series PoE+ DIN Rail mounted switch

0.	novel Operitiestions					
General Specifications						
Operating Mode	Store and forward wire speed switching, non-blocking					
Devices Supported	All IEEE 802.3 compliant devices are supported					
MAC Addresses	2K					
Packet Buffer	1Mbit					
Packet Forwarding Rate	1.5 Mpps					
Broadcast Storm Protection*	DIP switch enabled (DIP switch I)					
Latency	< 15 µs					
Jumbo Frame	9K					
Storage Temperature Range	-40 to +85 °C [-40 to +185 °F]					
Humidity (non-condensing)	5 to 95% RH					
Environmental Air	No corrosive gases permitted					
Vibration, Shock & Freefall	IEC60068-2-6, -27, -32					
EMI Emissions	FCC CFR47 Part 15, EN55032/CISPR32, Class A					
EMS	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 +/- 2kV IEC61000-4-6 (CS): 10V (150kHz ~ 80MHz)					
RoHS and WEEE	RoHS (Pb free) and WEEE compliant					
Packaging and Protection	Metal case, IP30					
Hazardous Locations	ANSI/ISA 12.12.01-2015 & CSA 22.2 No. 213-15 (Class I, Div.2) (file #E200031);					
Agency Approvals	UL/cUL UL/cUL 61010-1, Class 1, Div. 2, Groups A, B, C, D, (UL file #E200031) CE					

	RJ45 Ports
Port Type	Shielded RJ45
Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3af or 802.3at for PoE
Auto-Crossover	Yes, allows you to use straight-through or crossover wired cables
Auto-Sensing Operation	Yes, full and half duplex
Auto-Negotiating Speed	Yes
Flow Control	Automatic
Cable Requirements	Twisted pair (Cat5e or better) (shielded recommended)
Max. Cable Distance	100 meters

Power Details			
Downey In much	Redundant Input Terminals		
Power Input	Class 2 Power Supply		
	12 or 24VDC for Ethernet communications only		
Input Voltage	48-58 VDC for PoE (15.4 W per port)		
	54-58 VDC for PoE+ (30W per port)		
Reverse Power Protection	Yes		
	24-16 AWG, max wire length 3m [9.84 ft]		
Wire Size and Torque	Wire strip length 7mm		
	Torque: 1.77 lb·in [0.2 N·m]		
Power Consumption	switch only = 3W		
Power Budget	Ensure power supply to the switch is sized adequately to account for powered devices (PD).		
	switch plus PDs = 123 W max		
Cround Connection	< 5Ω		
Ground Connection	18 - 14 AWG		

* Broadcast storm threshold value is 2 packets/100ms for 10 Mbps port or 2 packets/10ms for 100 Mbps ports. DIP switch II is unused.

Front Panel LEDs					
LED	State	Description			
PWR1 LED	On	Power 1 connected and operational			
PWRILED	Off	Power 1 no voltage			
PWR2 LED	On	Power 2 connected and operational			
PWRZLED	Off	Power 2 no voltage			
ACT/LNK LED	On	Indicates that there is a proper Ethernet connection (Link) between the port and another Ethernet device, but no communications activity is detected.			
	Blinking	Indicates that there is a proper Ethernet connection (Link) between the port and another Ethernet device, and that there is communications activity.			
	Off	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.			
Speed LED	On	A 100 Mbps (100BaseT) connection is detected.			
10/100 Models	Off	A 10 Mbps (10BaseT) connection is detected.			
BoE	On	Port is providing power			
PoE	Off	Port is not providing power			

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



	Stride SE2 Unmanaged Models						
Part Number	Price	RJ45 10/100	RJ45 GbE	Fiber	Input power (max.)	Operating Temp	Agency Approvals
SE2-MC2U-C1-T	Retired	1	I	1 SC		-40 to +75°C	
<u>SE2-MC2U-T1-T</u>	Retired	1	-	1 ST	3.4 W	[-40 to +167°F]	
<u>SE2-SW5U</u>	Retired	5	-	_	0.4 W	-10 to +60°C [+14 to +140°F]	
SE2-SW5UG-T	Retired	-	5	_	4.5 W		
SE2-SW5U-1C1-T	Retired	4	-	1 SC	2 4 10/		UL/cUL 61010-1 and
<u>SE2-SW5U-1T1-T</u>	Retired	4	-	1 ST	3.4 W		61010-2-201,
<u>SE2-SW8U</u>	Retired	8	-	_		-10 to +60°C [+14 to +140°F]	Haz Loc, CE
<u>SE2-SW8U-T</u>	Retired		-	_	4.6 W		
SE2-SW8U-2C1-T	Retired	6	-	2 SC			
SE2-SW8UG-T	Retired	-	8	_	10W	-40 to +75°C - [-40 to +167°F]	
<u>SE2-SW16U-T</u>	Retired	16	_	_	0)4/		
<u>SE2-SW18U-2G-T</u>	Retired	16	2	_	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 <u>SE2-PM1</u> or <u>SE2-PM3</u>.

	SE2-Series Panel Mounting Brackets					
Part Number Price For use with switch model						
<u>SE2-PM1</u>	Retired	SE2-SW5Ux, SE2-SW8U-x, and SE2-MCx				
<u>SE2-PM3</u>	Retired	SE2-SWPx, <u>SE2-SW8UG-T,</u> <u>SE2-SW16U-T, SE2-SW18U-2G-T</u> and all SE2 managed switches				



Stride SE2 Series Unmanaged Industrial Ethernet Switches and Media Converters

SE2 Series DIN Rail mounted switches

General Specifications				
Operating Mode	Store and forward wire speed switching, non-blocking			
Devices Supported	All IEEE 802.3 compliant devices are supported			
MAC Addresses	8K for SE2-SWxG-T, <u>SE2-SW16U-T</u> , <u>SE2-SW18U-2G-T</u> 2K			
Packet Forwarding Rate	0.75 Mpps - SE2-MC2U-x, <u>SE2-SW5U</u> & SE2-SW5U-x 1.2 Mpps - SE2-SW8U-x 7.4 Mpps - <u>SE2-SW5UG-T</u> 14.9 Mpps - <u>SE2-SW8UG-T</u> & 5.7 Mpps - <u>SE2-SW16U-T</u> & <u>SE2-SW18U-2G-T</u>			
Broadcast Storm Protection*	DIP switch enabled (DIP switch I ON)			
Jumbo Frame Support	rt DIP switch enabled for <u>SE2-SW5UG-T</u> , <u>SE2-SW8UG-T</u> and <u>SE2-SW18U-2G-T</u> only (DIP switch II ON)**			
Latency	< 10 µs			
Storage Temperature Range	-40 to +85 °C [-40 to +185 °F]			
Humidity (non-condensing)	5 to 95% RH			
Environmental Air	No corrosive gases permitted			
Vibration, Shock & Freefall	IEC60068-2-6, -27, -32			
EMI Emissions	FCC CFR47 Part 15, EN55032/CISPR32, Class A			
EMS	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)			
RoHS and WEEE	RoHS (Pb free) and WEEE compliant			
Packaging and Protection	Metal case, IP30			
Hazardous Locations	ANSI/ISA 12.12.01-2015 & CSA 22.2 No. 213-15 (Class I, Div.2) (file #E200031);			
Agency Approvals	UL/cUL 61010-1 and 61010-2-201, Class 1, Div. 2, Groups A, B, C, D, (UL file #E200031) CE			

SC/ST Fiber Port: (100BaseFX multimode) 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	4 km
Eye Safety (laser)	IEC 60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11

RJ45 Ports					
Port Type	Shielded RJ45				
Ethernet Compliance	IEEE 802.3i, 802.3u, 802.3x for 10/100 Ethernet IEEE 802.3ab, 802.3z for Gigabit Ethernet				
Auto-Crossover	Yes, allows you to use straight-through or crossover wired cables				
Auto-Sensing Operation	Yes, full and half duplex				
Auto-Negotiating Speed	Yes				
Flow Control	Automatic				
Cable Requirements	Twisted pair (Cat5e or better) (shielded recommended)				
Max. Cable Distance	100 meters				

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

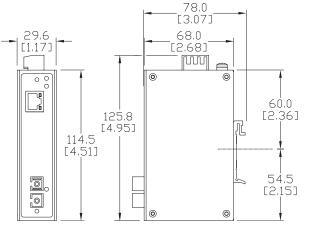
* Broadcast storm threshold value is 2 packets/100ms for 10 Mbps port or 2 packets/10ms for 100 Mbps and 1000 Mbps ports. ** DIP switch II is unused on the 10/100 models.

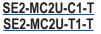
Front Panel LEDs					
LED State Description					
PWR1 LED	On	Power 1 connected and operational			
PWRILED	Off	Power 1 no voltage			
PWR2 LED	On	Power 2 connected and operational			
PWRZLED	Off	Power 2 no voltage			
	On	Indicates that there is a proper Ethernet connection (Link) between the port and another Ethernet device, but no communications activity is detected.			
ACT/LNK LED	Blinking	Indicates that there is a proper Ethernet connection (Link) between the port and another Ethernet device, and that there is communications activity.			
	Off	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.			
Speed LED On		A 100 Mbps (100BaseT) connection is detected.			
10/100 Models	Off	A 10 Mbps (10BaseT) connection is detected.			
Speed LED	On	A 1000 Mbps (1000BaseT) connection is detected			
10/100/1000 Models	Off	A 100 or 10 Mbps (100BaseT or 10BaseT) connection is detected			

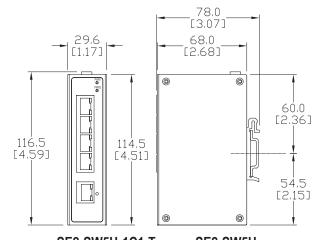
SFP Ports
SFP (pluggable) ports accept 1000Mbps Mini-GBIC (SFP) transceivers
See SFP datasheet for optional fiber transceiver specification

Stride SE2 Series Unmanaged Industrial Ethernet Switches and Media Converters **Dimensions** SE2 Series DIN Rail mounted switches mm [Inches]

Allow 20mm [0.79"] clearance around the switch for cooling

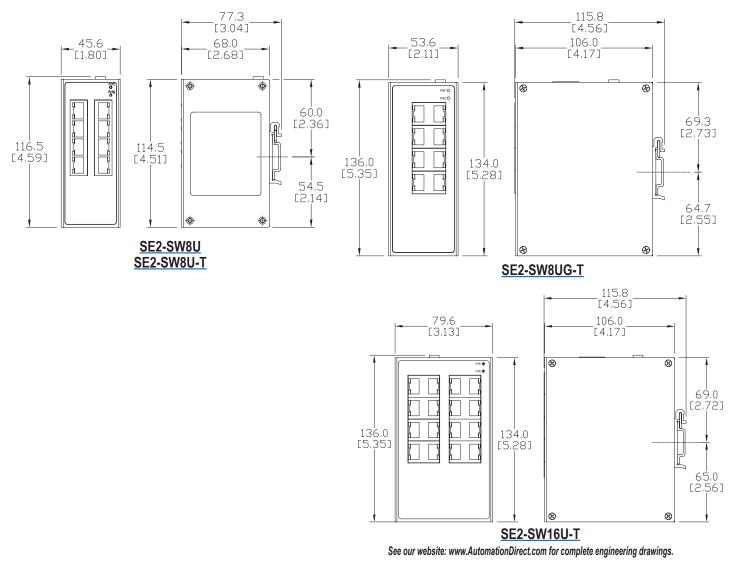






SE2-SW5U-1C1-T SE2-SW5U-1T1-T

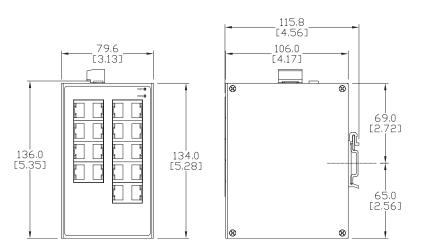
SE2-SW5U SE2-SW5UG-T



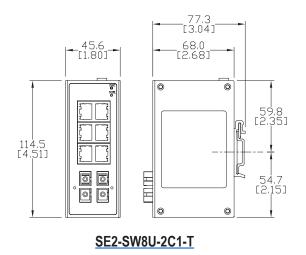
Stride SE2 Series Unmanaged Industrial Ethernet Switches

SE2 Series DIN Rail mounted switches

Allow 20mm [0.79"] clearance around the switch for cooling



SE2-SW18U-2G-T



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

IP65

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



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

Stride SE2 Series Unmanaged Industrial Ethernet Switches

SE2 Series IP65 Rated

General Specifications				
Operating Mode	Store and forward wire speed switching, non-blocking			
Devices Supported	All IEEE 802.3 compliant devices are supported			
MAC Addresses	2К			
Packet Buffer	1Mbit			
Packet Forwarding Rate	1.2 Mpps			
Latency	< 10 µs			
Storage Temperature Range	-40 to +85 °C [-40 to +185 °F]			
Humidity (non-condensing)	5 to 95% RH			
Pollution Degree	2			
Vibration and Shock	IEC60068-2-6, -27, -32			
Freefall	IEC60068-2-32			
Safety	EN60950-1			
EMI Emissions	FCC CFR47 Part 15, EN55032/CISPR32, Class A			
EMS	IEC61000-4-2 (ESD): ± 6kV (contact), ± 8kV (air) IEC61000-4-3 (RS): 20V/m (80MHz ~ 2 GHz) IEC61000-4-4 (EFT): Power Port ± 2kV; Data Port: ± 2kV IEC61000-4-5 (Surge): Power Port: ± 1kV/DM, ± 2kV/CM IEC61000-4-6 (CS): 10V (150 kHz ~ 80 MHz) IEC61000-4-8 (Power frequency magnetic field) :50 Hz 100A IEC61000-4-9 (Pulsed magnetic field) :300A/m IEC61000-4-9 (Voltage short interruptions) :10ms 100%			
RoHS and WEEE	RoHS (Pb free) and WEEE compliant			
Packaging and Protection	Metal case, IP65			
Agency Approvals	UL/cUL 61010-1 UL/cUL 61010-2-201, (UL file #E157382), CE, EN50155, EN50121			

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

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

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

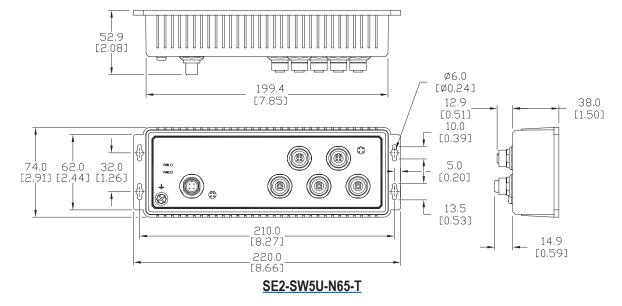
Front Panel LEDs				
LED	State Description			
Dower 1 LED	On	Power 1 connected and operational		
Power 1 LED	Off	Power 1 no voltage		
Power 2 LED	On	Power 2 connected and operational		
Power 2 LED	Off	Power 2 no voltage		
Ethernet Port	On	Ethernet port connected		
Connection Status LED	Blinking	Ethernet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

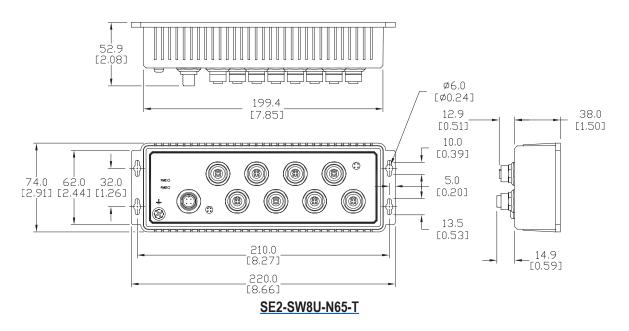
Stride SE2 Series Unmanaged Industrial Ethernet Switches

SE2 Series IP65 Rated

Dimensions

mm [Inches]





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

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

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>	\$129.00	5	_	2.0 W		
<u>SE-SW8U</u>	\$219.00	8	_	4.0 W		
<u>SE-SW5U-ST</u>	\$249.00	4	1 ST	2.0.14		
<u>SE-SW5U-SC</u>	\$239.00	4	1 SC	3.0 W	-10 to +60°C	UL/cUL 508,
<u>SE-SW9U-ST</u>	\$329.00	0	1 ST	5.0.14	[+14 to +140°F]	Haz Loc, CE
<u>SE-SW9U-SC</u>	Retired	8	1 SC	5.0 W		
<u>SE-MC2U-ST</u>	\$238.00		1 ST	2.0.W		
<u>SE-MC2U-SC</u>	\$235.00	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>	\$231.00	5	_	2.0 W			
<u>SE-SW8U-WT</u>	\$299.00	8	_	4.0 W	-40 to +85°C [-40 to +185°F]		
<u>SE-SW5U-ST-WT</u>	\$329.00	4	1 ST	3.0 W		-40 to +85°C	UL/cUL 508,
<u>SE-SW5U-SC-WT</u>	\$329.00	4	1 SC	3.0 W		Haz Loc, CE	
<u>SE-SW9U-ST-WT</u>	\$419.00	8	1 ST	5.0.14			
<u>SE-SW9U-SC-WT</u>	\$409.00	8	1 SC	5.0 W			

Stride SE Series Unmanaged Industrial Ethernet Switches and Media Converters

Devices SupportedAllStandardsIMAC AddressesIMemory BandwidthILatency for 10 Mbps portsIportsIPower InputIInput Power (typical with all ports active at 100 Mbps)SE-S SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV SE-SV	and forward IEEE 802.3 IEEE 16 µs 5 µs Redu MC2U-ST MC2U-ST MC2U-ST MC2U-ST SW5U-ST SW5U-ST SW5U-ST SW5U-ST SW5U-ST SW5U-ST SW9U-ST SW9U-ST SW9U-ST SW9U-ST SW9U-ST SW9U-ST SW9U-SC M9U-ST-WT J9U-SC-WT 30 VDC (co	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) andant Input Terminals 2.0 W 3.0 W 4.0 W 5.0 W ntinuous)–Class 2 Power Supply Yes 15,000 watts peak		
Operating ModeStoreDevices SupportedAllStandardsImportedMAC AddressesImportedMemory BandwidthImportedLatency for 10 Mbps portsImportedPower InputImportedPower InputSE-1SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5SE-5S	EEE 802.3 IEEE 16 µs 5 µs Redu MC2U-ST MC2U-SC -SW5U W5U-WT SW5U-SC W5U-ST-WT /5U-SC-WT SW5U-ST W5U-SC-WT SW9U-ST SW9U-ST SW9U-ST SW9U-ST W9U-ST-WT /9U-SC-WT 30 VDC (co 5,000 15	wire speed switching, non-blocking compliant devices are supported 802.3, 802.3u, 802.3x 1024 addresses 3.2 Gbps s + frame time (typical) andant Input Terminals 2.0 W 3.0 W 4.0 W 5.0 W 5.0 W		
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SE-SU SE-SW SE-SW SE-SW SE-SW SE-SW Reverse Power Protection Transient Protection Spike Protection Ethernet Isolation SE-SW <	<u>SW9U-SC</u> /9U-ST-WT /9U-SC-WT 30 VDC (co 5,000 15	ntinuous)–Class 2 Power Supply Yes 15,000 watts peak		
Input Voltage 10- Reverse Power Protection 10- Transient Protection 10- Spike Protection 10- Ethernet Isolation 10- Operating Temperature Range SE-5 SE-5 SE-5 SE-5 SE-5 SE-5 SE-5	30 VDC (co 5,000 15	ntinuous)–Class 2 Power Supply Yes 15,000 watts peak		
Reverse Power Protection Transient Protection Spike Protection Ethernet Isolation SE Operating Temperature Range SE-S	5,00	Yes 15,000 watts peak		
Spike Protection Ethernet Isolation SE-1 SE-2 SE-3 SE-4 SE-5	5,00 15			
Spike Protection Ethernet Isolation SE-1 SE-2 SE-3 SE-4 SE-5	15	0 watts (10x for 10 us)		
Operating Temperature SE-0 SE-3 SE-3 SE-3 SE-3 SE-3 SE-3 SE-3 SE-3 SE-3 SE-3 SE-3 SE-3	15	5,000 watts (10x for 10 us)		
SE-M SE SE SE	AC2U-ST	500 VRMS 1 minute		
SE-S	<u>AC2U-SC</u> -SW5U -SW5U-ST SW5U-SC SW9U-ST SW9U-SC	-10 to +60°C [+14 to +140°F], cold startup at -10°C [+14°F]		
SE-SV	3W5U-WT 3W8U-WT 75U-ST-WT 75U-SC-WT 79U-ST-WT 79U-SC-WT	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			
	No corrosive gasses permitted. For use in Pollution Degree 2 environment			
Vibration and Shock	IEC60068-2 and -27			
EMI Emissions	FCC par	tt 15, ICES-003, EN55022		
EMC Immunity		IEC61326-1		
RoHS and WEEE		o free) and WEEE compliant		
UL 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)			

Genera	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> <u>SE-SW9U-SC</u>	UL94VO Lexan, IP30
ridection	<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	

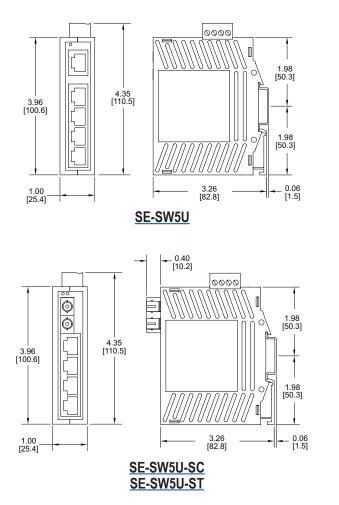
Fiber Port: (100BaseFX multimode)		
100BaseFX Ports	1	
Fiber Port Mode	Multimode (mm)	
Fiber Port Connector	ST – models SE-XXXX-ST and SE-XXXX-ST-WT SC – models SE-XXXX-SC and SE-XXXX-SC-WT	
Optimal Fiber Cable	50/125 or 62.5/125 µm	
Center Wavelength	1300 nm	
Multimode	Links up to 4 km typ.; > Transmitter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

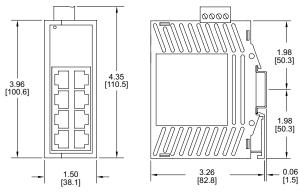
Complete documentation

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

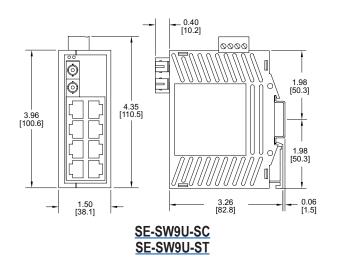
Stride SE Series Unmanaged Industrial Ethernet Switches and Media Converters Dimensions

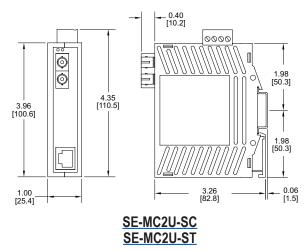
Inches [mm]







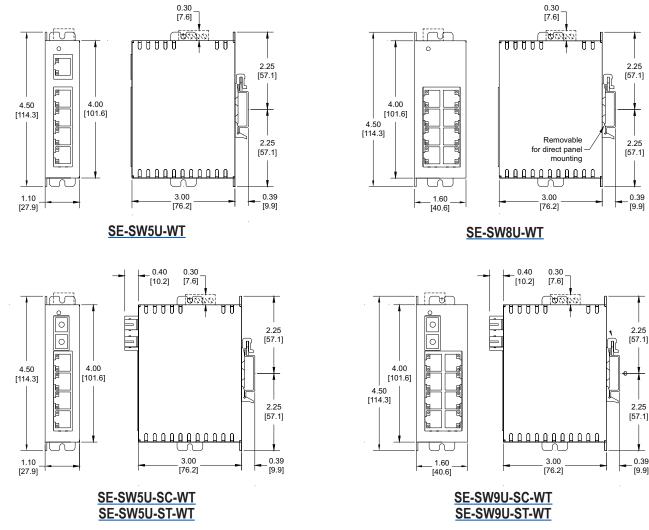




See our website: www.AutomationDirect.com for complete engineering drawings.

Stride SE Series Unmanaged Industrial Ethernet Switches and Media Converters Dimensions

Inches [mm]



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

For the latest prices, please check AutomationDirect.com. 1-800-633-0405 **MB-GATEWAY Modbus TCP/IP to RTU Gateway**

MB-GATEWAY

AutomationDirect's MB-GATEWAY is a single port Modbus Gateway module that converts Modbus TCP to Modbus RTU. It supports up to 12 simultaneous Modbus TCP Client (master) Ethernet connections, and up to 128 RTU Server (slaves) serial connections. MB-GATEWAY requires 10VDC to 36VDC from an external power supply. Each module has one RJ45 10/100 Mbps Ethernet port and one RS-422/485 2 or 4-wire serial port. It supports NetEdit* or Web Browser based configuration tools.

Key features

• Automatic read function

• 35 mm DIN rail mount

- RJ45 10/100 Mbps Ethernet port
- RS-422/485 2 or 4 wire serial port
- Supports NetEdit* and Web browser configuration tools

*NetEdit version 3.8 or later is required to support MB-GATEWAY.

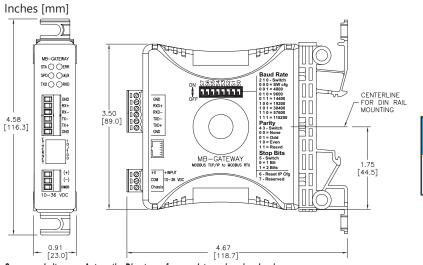
• Auto detects Ethernet cable types (MDI/MDX)

Specifications			
	Port	RJ-45	
	Speed	10/100 Mbps	
Ethernet	Protection	Built-in 1.5 KV magnetic isolation	
Interface	Protocol Supported	Modbus TCP/IP Server (Slave)	
	Clients (Masters) Supported	12 simultaneous Modbus TCP connections	
	Cable Type	Auto detects Ethernet cable types (MDI/MDX)	
	Port	6-position terminal strip (Phoenix #1863194) provided	
	Supported Signal Lines	RS-422 (5-wire) Signals: TX+, TX-, RX-, RX+, GND RS-485 (3-wire) Signals: Data+, Data -, GND	
Serial	Supported Baud Rates	300*, 600*, 1200*, 4800, 9600, 14.4k, 19.2k, 38.4k, 57.6k, 115.2k *Cannot be set with DIP switches. Must be set via Web browser configuration.	
Interface	Parity	Odd, Even, None	
	Data Bits	8	
	Stop Bits	1, 2	
	Protocol Supported	Modbus RTU Client (Master)	
	Servers (Slaves) Supported	128	
	Termination	Permanently installed 120Ω resistor between Data+ and Data -	



Specifications			
Power Consumption	2W Use Class 2 power supply Use conductors rated 60/75°C 3-position terminal strip (Phoenix #1863165) provided		
Wire Range	16–28AWG Solid or Stranded Conductor (1.5 mm2)		
Wire Strip Length	0.24–0.27 in [6–7 mm]		
Screw Torque	1.7 lb-in [0.2 N⋅m]		
Operating Temperature Range	0 to 60°C [32 to 140°F]		
Storage Temperature Range	-20 to 70°C [-4 to 158°F]		
Humidity	5 to 95% RH (non-condensing)		
Environmental Air	For use in Pollution Degree 2 Environment		
Vibration	MIL STD 810C 514.2		
Shock	MIL STD 810C 516.2		
Weight	0.2 lbs [0.09 kg]		
Agency Approval UL (file #E185989), CE			

Dimensions



⁻I Fullul

Replacement Part

Server

Part Number	Description	Price
<u>MB-GW-CON</u>	MB-Gateway-Connector Kit 1ea: Phoenix 3 pin power connector AND 1 ea: Phoenix 6 pin serial connector	\$20.00



Communication Products

Client

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

www.automationdirect.com



\$262.00

1-800-633-0405 FA-ISOCON Universal Isolated Network Adapter



FA-ISOCON

\$166.00

The FA-ISOCON Universal Isolated Network Adapter is used to place RS-232 devices such as PLCs, operator interfaces, industrial computers, etc., on an RS-422 or RS-485 multidrop network. The Network Adapter converts RS-232 signal levels to isolated RS-422 or RS-485 signal levels. This network adapter is similar to our other RS-232/422 converters, but it offers the added benefit of network isolation. This adapter is especially useful in noisy environments where data corruption due to induced noise is possible.

The FA-ISOCON features Automatic Network Transmitter Enable (ANTE) so that an RTS output is not required on the connected RS-232 device. The FA-ISOCON is a direct functional replacement for the

FA-ISONET when CTS Controlled Transmit Enable (CCTE) mode is active. Having both ANTE and CCTE modes, the FA-ISOCON is compatible with most RS-232 devices.

The diagram below shows a simple example of an FA-ISOCON used for PC to multiple PLC communications.

Key features

Following are some of the key features and benefits of the FA-ISOCON:

- DIP switch selectable Automatic Network Transmitter Enable so that an RTS output is not required on the connected RS-232 device
- DIP switch selectable CTS Controlled Transmit Enable mode for backwards compatibility with the FA-ISONET.
- DIP switch select termination and bias resistors; short/open TXD+/RXD+ and TXD-/RXD- terminals for 1/2 duplex comm.
- Isolation removes ground loop currents from data lines. Noise voltages resulting from transformer-like coupling are also eliminated
- Many forms of radiated noise are reduced to negligible levels.
- FA-ISOCON can be powered from 24 VDC or 5 VDC. (Unit may be powered directly from CPU pins on CPUs with +5V pins or the auxiliary 24 VDC power supply on I/O bases.)
- Unit has RS-232 transmit and receive LEDs and an RS-422/485 Transmitter Enable LED to simplify troubleshooting.

RJ12 port allows you to use the modular cables (included) to guickly connect the D0-05xx, D2-240 or D3-340 to the FA-ISOCON. Connections can be made to the D3-350, DL405 CPUs and PCs with the connectors that are included.

Specifications

- Max. network distance: 4000 feet
- Max. number of devices: 32 per network
- Max. baud rate: 115.2 Kbaud
- Supply voltage: 5 VDC @ 100 mA max. (from CPU) or 24 VDC @ 70 mA (external source)
- Max. driver load: 62 ohms
- Driver voltage: ±1.5V minimum
- No load current: 80 mA
- Max. current: 100 mA (62 h)
- Isolation resistance: >1014 h/7pF
- Voltage withstand: 1.2 KVrms/1s 1.0 KVrms/1 minute
- Operating temp: 0 to 60°C [32 to 140°F]

Installation is a 'snap'

The FA-ISOCON comes with an attached DIN rail connector. Simply hook the top of the DIN connector on the DIN rail, then pull the unit down and rotate the bottom of the DIN connector onto the DIN rail (or use the provided holes to flush-mount it on a panel). The adapter's RJ12 serial port can be connected to a PC or a DirectLogic CPU port using one of the supplied cables/connectors. Or, use the adapter's RS-232 terminal block to connect to a serial device. Connect the RS-422/485 communications wiring to the convenient RS-422/485 terminal blocks.

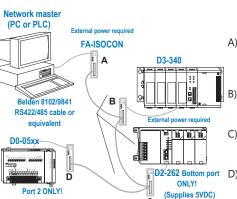
Adapter components

- FA-ISOCON Isolated Network Adapter with attached DIN mounting bracket
- 25-pin male to RJ12 6P6C connector
- 9-pin female to RJ12 6P6C connector
- 1' cable with RJ12 6P6C plug to RJ11 4P4C plug for use with D3-340.
- 1' cable with RJ12 6P6C plug to RJ12 6P6C plug

Dimensions including DIN bracket and terminal block. HxWxD (4.55" x 0.90" x 4.69")



Removable terminal blocks make it easy to connect communication wiring. (Replacement terminal plug kit FA-ISOCON-P)



С

- A) FA-ISOCON converts the network master's (computer or PLC, etc.) RS-232 communication signal levels to RS-422/485.
- B) FA-ISOCON converts the RS-422/485 signal levels back to RS-232 for a connection to the D3-340 CPU bottom port.
- C) FA-ISOCON converts the RS-422/485 signal levels back to RS-232 for a connection to the D2-262 CPU bottom port.
- D2-262 Bottom port D) FA-ISOCON converts the RS-422/485 signal levels back to RS-232 for a connection to the D0-05xx CPU port 2.

(Supplies 5VDC)

1-800-633-0405 **F2-UNICON** Universal Converter

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- RS-232/422/485 converter circuit board
- Mounting assembly (including a DIN rail
- bracket) for the circuit board • 1 ft. modular cable with two RJ12 6P6C plugs

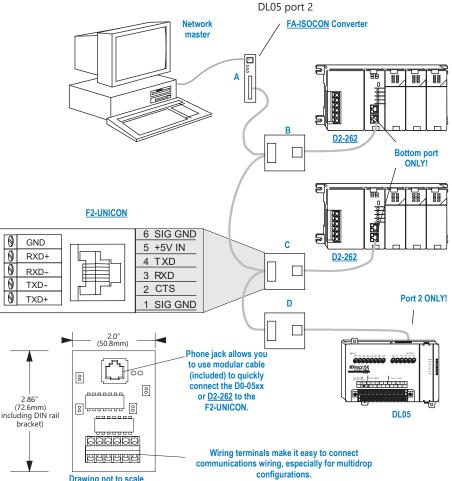
F2-UNICON \$123.00

The F2-UNICON Universal Converter converts RS-232 signal levels to RS-422 signal levels or RS-422 signal levels into RS-232 signals. The F2-UNICON does not offer the benefit of network isolation that the FA-ISOCON offers. The F2-UNICON has been specifically designed to be used with the DL05 and D2-262 CPUs. It offers features such as:

- · Easily mounts to DIN rail
- Does not require an external power source. It obtains power from the +5V pin on the D2-262 CPU port (bottom port) and the DL05 (port 2).
- · Has transmit and receive LEDs to simplify troubleshooting.

Installation is a "snap"

The F2-UNICON comes with a DIN rail housing for the circuit board. Simply snap the board into the housing and mount it on a DIN rail (or flush-mount it on a panel). Connect the communications wiring to the convenient terminal blocks, then connect the adapter to the CPU port with the cable.

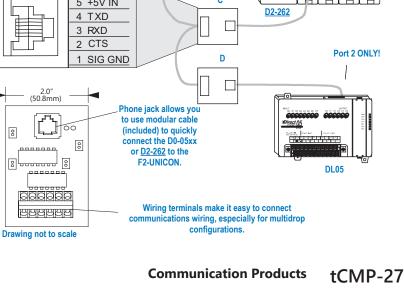


General specifications

- Max. network distance: 4000 feet
- Max. baud rate: 19.2 Kbaud
- Supply voltage: 5 VDC (from CPU)
- Max. driver load: 62 h
- Driver voltage: ±1.5V minimum
- No load current: 65 mA
- Max. current: 100 mA
- Operating temp: 60°C [140°F]

Example of system using F2-UNICON

- A) F2-UNICON converts the network master's (computer) RS-232 communications card signal levels to RS-422/485, which is suitable for a multi-drop network.
- B) F2-UNICON converts the RS-422/485 signal levels back to RS-232 for a connection to the D2-262 CPU bottom port.
- C) F2-UNICON converts the RS-422/485 signal levels back to RS-232 for a connection to the D2-262 CPU bottom port.
- D) F2-UNICON converts the RS-422/485 signal levels back to RS-232 for a connection to the



1-800-633-0405 For the FA-CABKIT Universal Cable Kit

FA-CABKIT \$71.00

The Universal Cable Kit (FA-CABKIT) allows you to connect various types of **Direct**LOGIC[™] products with an RS-232 cable in a matter of minutes. The kit consists of two phone cables (with male plugs already attached) and several specially wired connectors. The special connectors are a

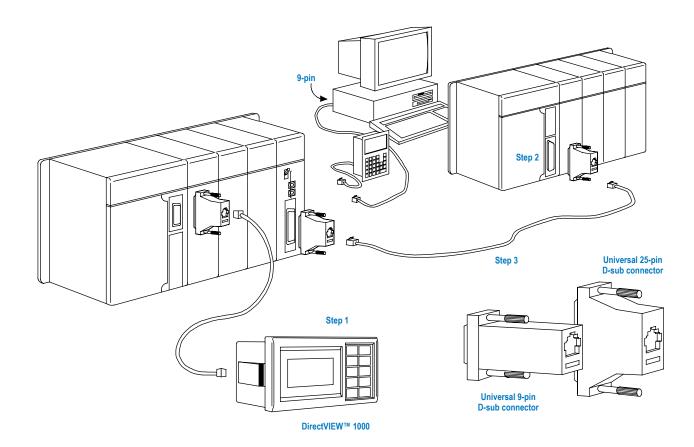
D-sub style with built-in female phone jacks. This kit, with its wide variety of special connectors, allows for easy connections to many different products from each of the **Direct**LOGIC product families. The individual pieces of the kit are not sold separately except for the FA-15HD high density 15-pin connector.

Note: For D-sub to terminal block adapters, see the Wiring Solutions section

Follow these simple steps to use the cable kit:

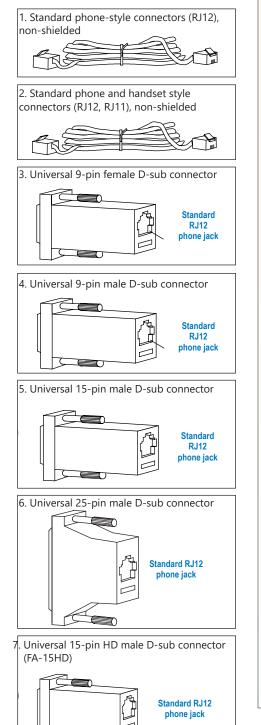
- 1. Plug the proper universal connector (or cable) into the appropriate communication port of the host product (CPU, DCM, CoProcessor module, personal computer, operator interface, etc.).
- 2. Plug the proper universal connector onto the other device to be connected to the host system : (DL05, DL06, DL105, DL205, DL305, DL405, CoProcessor module, PC communication card, etc.).
- 3. Connect the universal cable between the two connectors.
- 4. Verify that the circuit you created is correct before applying power.

WARNING: This cable system is designed for temporary testing situations and should not be used in actual applications. This cable is not shielded and is susceptible to electrical noise. Electrical noise can cause unpredictable operation that may result in a risk of personal injury or damage to equipment.



1-800-633-0405 For the For the

The table lists various devices that can be connected quickly with the universal cable kit. To determine which parts you need to use, simply use the table to find the connection you wish to make. Then match each device required for that connection with its part number. Snap the pieces together and you're ready to communicate. The following seven parts are included in the Universal Cable Kit. These parts are not sold separately, except for the FA-15HD high density 15pin connector.



Universal cable kit

Universal cable kit	
<i>Items included in the universal cable kit</i> Device Description	
1. 7 ft. standard cable, 6P6C to 6P6C phone type	
2. 6 ft. adapter cable, 6P6C to 4P4C phone type	
3. AT connector 9-pin female to 6P6C connector	
4. (ASCII BASIC module) 9-pin male connector to 6P6C connector	
5. DL405 15-pin male connector to 6P6C connector	
6. DL405 CPU and DCM 25-pin male connector to 6P6C connector	
7. DL06, D2-250(-1) and D2-260 CPUs 15-pin HD male connector to 6 connector	SP6C
Common connection examples DL05, DL06, DL105, DL205, D3-350 and (D4-450 port 2)	
CPU connections Connection desired	Devices required
1. DL05/06/105/205/DL350/D4-450 to AT type computer 9-pin	1,3
2. CPU to DV-1000	1
3. CPU to DL205 or DL405 DCM	1,6
4. CPU to DL340 CPU	2
5. CPU to ABM (DL205 only)	1,4
DL06, D2-250(-1), D2-260 CPU port 2 connections Connection desired	Devices required
1. DL06/250(-1)/260 port 2 to AT type computer 9-pin	1,3,7
2. DL06/250(-1)/260 port 2 to DV-1000	1,3,7
DL305 D3-232-DCU connections Connection desired	Devices required
1. DCU to AT type computer 9-pin	1,6,3
2. DCU to DL405 series DCM (requires 2 kits)	1,6,6
3. DCU to DL340 CPU	2,6
4. DCU to ABM	1,6,4
<i>DL305 CPU connections</i> Connection desired	Devices required
1. DL340 CPU to AT type computer 9-pin	2,3
2. DL340 CPU to DL405 series CPU/DCM	2,6
3. DL340 CPU to DL240 CPU	2
4. DL340 to ABM	2,4
5. DL340 CPU to DCU CPU	2,6
DL405 CPU (15-pin) top port connections Connection desired	Devices required
1. DL405 CPU to AT type computer 9-pin	1,5,3
2. DL405 CPU to DV-1000	1,5
DL405 CPU (25-pin) bottom port connections Connection desired	Devices required
1. DL405 CPU to AT type computer 9-pin	1,6,3
2. DL405 CPU to DL405 series DCM (requires 2 kits)	6
3. DL405 CPU to DL340 CPU	2,6
4. DL405 CPU to ABM	1,6,4

www.automationdirect.com

1-800-633-0405 USB Programming Cables

USB Cables

AutomationDirect's high quality USB cables are used to connect USB devices to a USB port on a PC. Each cable has Standard-A plug to Standard-B plug end connectors, both gold plated, and meet the USB 2.0 requirements. These cables can be used for programming Productivity Series CPUs, *C-more* panels, certain *C-more* Micro panels and PC to touchscreen connections for Atlas Industrial Monitors that include touchscreen capability.

Standard A to standard B



Standard A to micro B



Standard A to Standard C

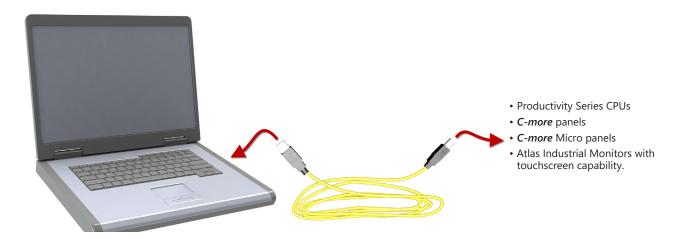




Part Number	art Number Description	
<u>USB-CBL-AB3</u>	3-ft [0.9 meter] Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$12.00
<u>USB-CBL-AB6</u>	6-ft [1.8 meter] Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$16.00
<u>USB-CBL-AB10</u>	B-CBL-AB10 B-CBL-AB10 10-ft [3 meter] Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	
<u>USB-CBL-AB15</u>	15-ft [4.6 meter] Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$42.50

Part Number	Description	Price
USB-CBL-AMICB6	Programming cable, USB A to micro-B USB, 6ft cable length.	
USB-CBL-AMICB15	Programming cable, USB A to micro-B USB, 15ft cable length.	\$10.50

Part Number	Description	Price
USB-CBL-AC6	Programming cable, USB A to USB C, 6ft cable length.	\$7.00



USB to RS-232 Converter

\$47.00

<u>USB-RS232</u>

This quality USB to RS-232 converter transparently connects serial devices to PC applications via a USB port. It is perfect for the user needing to connect to a serial port-based peripheral from a laptop PC with an available USB port but no serial port. The adapter driver creates a virtual serial port (using the next available COM number). Applications connect to the virtual COM port as if it were a standard serial port. The USB-serial conversion is completely transparent to the peripheral device.



Features:

- Flexible cable
- Premium quality
- Gold connectors
- Ergonomic molding for easy connection
- Foil and braid shielding to reduce EMI/RFI interference
- Designed for high-speed transmissions
- LED power and TX/RX indicators
- Mates with PC DB9 serial cables (such as our <u>D2-DSCBL</u> PLC cable)
- 2 hex nuts included

Specifications:

- RS-232 standard
- Powered by the USB bus
- DB 9 male connector
- USB A male connector
- 6ft [1.8m] cable
- USB 2.0 compliant
- Plug and Play

Operating Systems:

- Windows 11
- Windows 10
- Windows 8.1-64-bit, 32-bit
- Windows 8–64-bit, 32-bit
- Windows 7-64-bit, 32-bit
- Windows XP

Compatible with AutomationDirect's:

- DirectLOGIC PLCs (DirectSOFT 3.0C build 80 and later versions)
- Optimate panels (OP-WINEDIT software)

Hardware Requirements:

- One available USB port
- If the RS232 port on your device is not a nine pin female, you will need an additional adapter. USB-RS232 converter is a nine-pin male connector.



USB to RS-485 PC Adapter

<u>USB-485M</u>

\$60.00

Convenient 2-wire USB to RS-485 serial communication adapter for universal RS-485 use (GS drives, SureServo servos, Solo temperature controllers, CLICK PLCs, etc.). Does not require an external power supply or complicated configuration process.

Features:

- Type A (plug) USB connector
- Universal female RJ45/RJ12 modular connector (accepts RJ12 & RJ45 plugs)
- Supports multiple baud rates
- USB v2.0 compliant
- RoHS compliant
- CE compliant

Components Included:

- Adapter
- Cable 6-wire RJ12 crossover; 2m [79 in] (for plug & play connectivity to GS drives)
- Cable 2-wire RJ12–flying leads; 2m [79in] (for universal RS-485 connectivity to SureServo, Solo, etc.)

	Specifications				
Description	USB TO RS-485 PC Adapter; includes (2) RJ12 cables, mini-CD with driver, instructions				
Component Compatibility *	GS series AC drives – GSOFT configuration software GS series AC drives – Modbus polling SureServo servo drives – SV-PRO configuration software** SureServo servo drives – Modbus polling** SOLO process controllers – SL-SOFT configuration software SOLO process controllers – Modbus polling CLICK PLCs – Modbus polling Productivity PLCs – Modbus polling				
Power Supply	No external power supply needed				
Power Consumption	0.4 W				
Voltage Isolation	3000 VDC				
Baud Rates Supported	75, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (bps)				
Transmission Type	RS-485 half-duplex (2-wire)				
LED Display	Steady Green LED ON: power is ON. Blinking orange LED: data is transmitting.				
USB Connector	Type A (plug)				
RS-485 Connector	RJ45				
Compatibility	USB v2.0 specification				
PC Compatibility	Windows Operating System required for bridge & driver installation: 32-bit driver: Windows 7, 8, 8.1, 10 64-bit driver: Windows 7, 8, 8.1, 10				

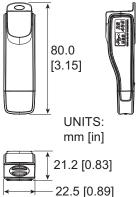
* NOT compatible with DirectSOFT PLC software.

(DirectSOFT RS-485 programming requires 4-wire full-duplex data transmission.)

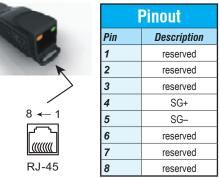
** Requires SVC-485CFG-CBL-2 cable.







USB-485M RJ-45 Pin-out



Cat5e STP Ethernet Patch Cables

Connectivity

Ethernet is a networking technology that includes the protocol, port, cable, and computer chip needed to interconnect intelligent devices on to a local area network.



Designed for Industrial Use

The noise interference radiated from electrical components that is often associated with factory floor environments can result in partial or complete data loss. This may result in delays or complete communication loss in extremely noisy environments.

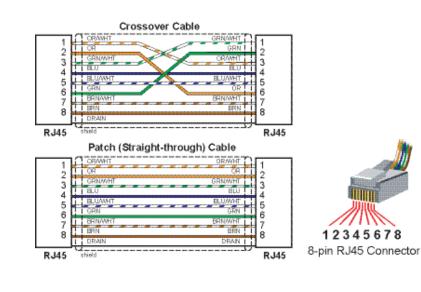
Our Ethernet patch cables are designed to reduce the effects of (EMI) electromagnetic interference by incorporating a single metal foil shield that wraps around the entire set of 8 wires in the Cat5e cable. The RJ45 connectors are also shielded against electrical interference and designed to be robust. Our 350 MHz cables exceed all Cat5e TIA/EIA standards, and drastically reduce both impedance and structural return loss (SRL) when compared to standard 100 MHz cables.

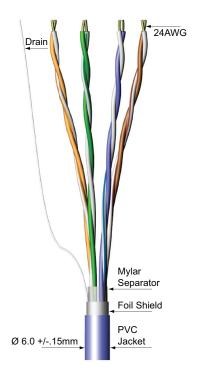
The cables comply with the PoE+ standard to deliver an enhanced 30W of power.

With several colors and lengths to choose from at great pricing, these cables should help you in creating solid, reliable Ethernet networks with any application.

Features

- Connector; 50-micron gold plated RJ45 male plugs
- Conductor; 4-pair 24 AWG stranded copper
- Overall foil shielded cable for industrial applications
- · Crossover cables have "crossover" label on each end.
- Exceeds Category 5e specifications, 350MHz
- 30W Power over Ethernet (PoE+)
- Multiple lengths and colors
- CM rated, suitable for general use other than plenum spaces
- RoHS compliant





1-800-633-0405 Ethernet Patch Cables

Cat 5e Straight Through Patch Cables				
Part Number	Color	Description	Length	Price
C5E-STPBK-S3	Black			\$6.75
C5E-STPBL-S3	Blue			\$6.75
C5E-STPGN-S3	Green	AutomationDirect Cat5e Ethernet straight-through		\$6.75
C5E-STPGY-S3	Gray	patch cable, STP (overall foil shield), RJ45 male to	3' [0.91 m]	\$6.75
C5E-STPOR-S3	Orange	RJ45 male. For use with 10/100/1000 Mbps networks.		\$6.75
C5E-STPPL-S3	Purple	Exceeds Category 5e cable specifications.		\$6.75
C5E-STPRD-S3	Red			\$6.75
C5E-STPYL-S3	Yellow			\$6.75
C5E-STPBK-S7	Black			\$11.00
C5E-STPBL-S7	Blue			\$11.00
C5E-STPGN-S7	Green	AutomationDirect Cat5e Ethernet straight-through		\$11.00
C5E-STPGY-S7	Gray	patch cable, STP (overall foil shield), RJ45 male to	71 [0 40]	\$11.00
C5E-STPOR-S7	Orange	RJ45 male. For use with 10/100/1000 Mbps networks.	7' [2.13 m]	\$11.00
C5E-STPPL-S7	Purple	Exceeds Category 5e cable specifications.		\$11.00
C5E-STPRD-S7	Red			\$11.00
C5E-STPYL-S7	Yellow			\$11.00
C5E-STPBK-S10	Black			\$14.50
C5E-STPBL-S10	Blue			\$14.50
C5E-STPGN-S10	Green	AutomationDirect Cat5e Ethernet straight-through		\$14.50
C5E-STPGY-S10	Gray	patch cable, STP (overall foil shield), RJ45 male to	10 ⁷ [2 05 m]	\$14.50
C5E-STPOR-S10	Orange	RJ45 male. For use with 10/100/1000 Mbps networks.	10' [3.05 m] - -	\$14.50
C5E-STPPL-S10	Purple	Exceeds Category 5e cable specifications.		\$14.50
C5E-STPRD-S10	Red			\$14.50
C5E-STPYL-S10	Yellow			\$14.50
C5E-STPBK-S14	Black			\$17.00
C5E-STPBL-S14	Blue		14' [4.3 m]	\$16.50
C5E-STPGN-S14	Green	AutomationDirect Cat5e Ethernet straight-through		\$14.00
C5E-STPGY-S14	Gray	patch cable, STP (overall foil shield), RJ45 male to RJ45 male. For use with 10/100/1000 Mbps networks.		\$17.00
C5E-STPPL-S14	Purple	Exceeds Category 5e cable specifications.		Retired
C5E-STPRD-S14	Red			\$14.50
C5E-STPYL-S14	Yellow			Retired
C5E-STPBK-S25	Black			\$24.00
C5E-STPBL-S25	Blue			\$23.00
C5E-STPGN-S25	Green	AutomationDirect Cat5e Ethernet straight-through		Retired
<u>C5E-STPGY-S25</u>	Gray	patch cable, STP (overall foil shield), RJ45 male to RJ45 male. For use with 10/100/1000 Mbps networks.	25' [7.6 m]	\$23.00
C5E-STPOR-S25	Orange	Exceeds Category 5e cable specifications.		Retired
C5E-STPRD-S25	Red			\$20.00
<u>C5E-STPYL-S25</u>	Yellow			Retired
C5E-STPBK-S50	Black			\$41.00
C5E-STPBL-S50	Blue			\$37.50
<u>C5E-STPGY-S50</u>	Gray	AutomationDirect Cat5e Ethernet straight-through		\$39.50
C5E-STPOR-S50	Orange	patch cable, STP (overall foil shield), RJ45 male to RJ45 male. For use with 10/100/1000 Mbps networks.	50' [15.2 m]	\$33.00
C5E-STPPL-S50	Purple	Exceeds Category 5e cable specifications.		\$34.00
C5E-STPRD-S50	Red			Retired
C5E-STPYL-S50	Yellow			\$31.50

1-800-633-0405 Ethernet Patch Cables

Cat5e Crossover Patch Cables				
Part Number	Color	Description	Length	Price
C5E-STPOR-C3	Orange		3' [0.91 m]	\$10.00
C5E-STPYL-C3	Yellow			\$8.25
C5E-STPOR-C7	Orange		7' [2 12 m]	\$12.50
C5E-STPYL-C7	Yellow	AutomationDirect Cat5e Ethernet crossover patch cable, STP (overall foil shield), RJ45 male to RJ45 male. For use with 10/100/1000 Mbps networks. Labeled as CROSSOVER on both ends. Exceeds Category 5e cable specifications.	7' [2.13 m]	\$11.00
C5E-STPOR-C10	Orange		10' [2 05 m]	\$16.00
C5E-STPYL-C10	Yellow		10' [3.05 m]	Retired
C5E-STPOR-C14	Orange		14' [4.3 m]	\$20.50
C5E-STPOR-C25	Orange		05/17.01	\$26.50
C5E-STPYL-C25	Yellow	-	25' [7.6 m]	\$22.50
C5E-STPOR-C50	Orange		501745.0.1	\$41.00
C5E-STPYL-C50	Yellow		50' [15.2 m]	\$36.00

Cat5e Cable Specifications			
Transfer Parameters	Cat5e		
Transfer Rate	Up to 1 Gbit/s full duplex		
Temperature Range	Bare cable temperature rating is 75°C		
Protection Degree	RJ45 connector: IP20		
Outer Diameter	6.0 mm ±0.2 mm		
Bend Radius	60mm (10 x outer diameter)		
Connection	Shielded RJ45 plug		
Wire Material	Stranded copper		
Approvals	Bare cable is cULus Recognized (file number E132276)		



1-800-633-0405 Ethernet Patch Cables

Cat6a STP Ethernet Patch Cables

Connectivity

Ethernet is a networking technology that includes the protocol, port, cable, and computer chip needed to interconnect intelligent devices on to a local area network.

Designed for High-Speed Industrial Use

The noise interference radiated from electrical components that is often associated with factory floor environments can result in partial or complete data loss. This may result in delays or complete communication loss in extremely noisy environments.

Our Cat6a Ethernet patch cables have a tighter twist rate than Cat5e cables to reduce crosstalk. The Cat6a cables are further designed to reduce the effects of (EMI) electromagnetic interference by incorporating a foil shield around each twisted pair, plus a single metal foil shield that wraps around the entire set of 8 wires. The RJ45 connectors are also shielded against electrical interference and designed to be robust.

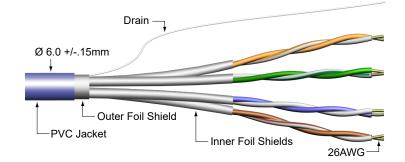
The cables comply with the PoE+ standard to deliver an enhanced 30W of power.

With several lengths to choose from at great pricing, these cables should help you in creating solid, reliable Ethernet networks with any application.



Features

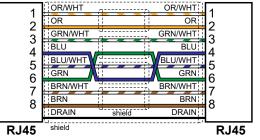
- Up to 10Gbps transfer rate
- 30W Power over Ethernet (PoE+)
- Connector: 50-micron gold plated RJ45 male plugs
- Conductor: 4-pair 26 AWG stranded copper
- Foil shielded twisted pairs with overall foil shielded cable for industrial applications
- CM rated, suitable for general use other than plenum spaces
- RoHS compliant

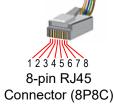


Cat6a Straight Through Patch Cables					
Part Number	Color	Description	Length	Price	
C6A-STPBL-S3	Blue STP (overall foil sh		3' [0.91 m]	\$9.00	
C6A-STPBL-S7		AutomationDirect Cat6a Ethernet straight-through patch cable,	7' [2.13 m]	\$13.50	
C6A-STPBL-S10		STP (overall foil shield), RJ45 male to RJ45 male. For use with 10/100/1000/10000 Mbps networks.	10' [3.05 m]	\$17.00	
C6A-STPBL-S14			14' [4.3 m]	\$21.50	

Cat6a Cable Specifications		
Transfer Parameters	Cat6a	
Transfer Rate	Up to 10 Gbit/s full duplex	
Temperature Range	Bare cable temperature rating is 75°C	
Protection Degree	tion Degree RJ45 connector: IP20	
Outer Diameter	6.0 mm ±0.2 mm	
Bend Radius	60mm (10 x outer diameter)	
Connection	Shielded RJ45 plug	
Wire Material	Stranded copper	
Approvals	Bare cable is cULus Recognized (file number E515747)	

Patch (Straight-through) Cable





StrideLinx Remote Access Solution

SE-SL Series Industrial VPN Routers





Verizon Model <u>SE-SL3011-4GG</u> Only

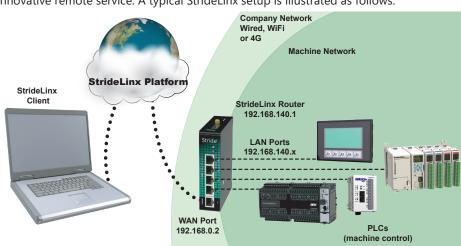
T-Mobile compatible with both LTE routers

StrideLinx Industrial VPN Router Models				
Part Number	Price	Gigabit Ethernet	WiFi	4G LTE ⁽²⁾
SE-SL3001 (1)	\$400.00	\checkmark		
SE-SL3011	\$494.00	\checkmark		
SE-SL3011-WF	\$621.00	\checkmark	√	
SE-SL3011-4G	Retired	\checkmark		✓ (AT&T)
<u>SE-SL3011-4GG</u>	\$727.00	\checkmark		✓ (Global)

(1) SE-SL3001 does not support data logging or notifications.

(2) SIM card and data plan compatible with the frequencies and bands supported by the device and identified in the spec table are required for 4G LTE operation from the carrier. An M2M SIM card is configured with an amount of data and a duration of validity at the time of purchase. Antennas required for WiFi and 4G models and must remain connected during operation. WARNING: DO NOT insert or remove the SIM card when power is applied to the router.

The StrideLinx Platform is a secure and powerful VPN platform based on a worldwide network of servers. It is focused on delivering and enhancing innovative remote service. A typical StrideLinx setup is illustrated as follows.



Key features

- Gigabit port speed
- Wired, WiFi, or 4G LTE WAN connectivity
- Easy, secure VPN networking
- Available Notification and Data Logging service
- Available Service Level Agreement (SLA)

4G LTE Router Options		
Features	<u>SE-SL3011-4G</u>	<u>SE-SL3011-4GG</u>
Verizon*	No	Yes – Certified
AT&T	Yes – Certified	Yes – Tested
T-Mobile	Yes – Tested	Yes – Tested
International Frequency Bands	No	Yes, but not tested with carriers

* Requires router firmware version 3.20 or later.

Please visit the <u>StrideLinx</u> page at AutomationDirect.com for an overview of the StrideLinx Remote Access Solution.

StrideLinx Remote Access Solution

SE-SL Series Industrial VPN Routers

Power Details	
Input Voltage	Class 2 LPS Power Supply, 12-24 VDC
Maximum Input Power	10W
Maximum Input Current	2A
Internal Voltage Protection	29V max
Reverse Polarity Protection	Yes
Isolation	1.5 kV

General Specifications	
USB	USB 2.0 (for configuration only)
Processor	MIPS 800MHz
Digital Input for Local Control	Yes
Operating Temperature Range	-20°C to +65°C [-4°F to +149°F]
Storage Temperature Range	-20°C to +65°C [-4°F to +149°F]
Relative Humidity	10 to 95% non-condensing
Operating Altitude	Up to maximum 2000m
Storage Altitude	Up to maximum 3000m
Environmental Air	For use in Pollution Degree 2 Environment. No corrosive gases permitted.
EMI	FCC CFR47 Part 15, EN55022/CISPR22, Class B
EMS	IEC61000-4-2 (ESD): ± 8kV (contact), ± 15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz ~ 2GHz) IEC61000-4-4 (EFT): Power Port ± 4kV; Data Port: ± 2kV IEC61000-4-5 (Surge): Power Port: ± 2kV/DM, ± 4kV/CM; Data Port ± 2kV IEC61000-4-6 (CS): 10V (150kHz ~ 80MHz)
RoHS and WEEE	RoHS (Pb free) and WEEE compliant
Packaging and Protection	Metal case, IP20
Mounting	DIN rail
Weight	270–310 gram
Certification	CE, cULus, RoHS, REACH, AT&T (SE-SL3011-4G), FCC
Warranty	2 years
Agency Approvals	UL/cUL 60950-1, CE

WiFi Specifications (P/N SE-SL3011-WF Only)

WiFi IEEE 802.11 Version	b/g/n
WiFi Modes	Station (Client) Mode and Access Point
Speed	72 Mbps
Antenna Connection	RP-SMA plug (male)
Antenna Connector Torque	3–5 lb∙in [0.3–0.6 N∙m]
FCC ID	XPYLILYW1

Ethernet Interface	
Ethernet ports	Five GbE (4x LAN, 1x WAN)
Port Type	Shielded RJ45
Auto-Crossover	Yes, allows you to use straight-through or crossover wired cables
Auto-Sensing Operation	Yes, full and half duplex
Auto-Negotiating Speed	Yes
Flow Control	Automatic
Operating Mode	Store and forward wire speed switching, non-blocking
Devices Supported	All IEEE 802.3 compliant devices are supported
Protection	Built-in 1.5 kV magnetic isolation
Cable Requirements	Twisted pair (Cat5e or better) (shielded recommended)
Max. Cable Distance	100 meters

4G LTE Specifications (P/N SE-SL3011-4G Only)	
Protocols and Frequencies (AT&T)	LTE-FDD - B2, B4, B12 WCDMA - B2, B4, B5
Speed	LTE-FDD - Max. 100 Mbps (DL)/Max. 50 Mbps (UL) WCDMA - Max. 384 kbps (DL)/Max. 384 kbps (UL)
Antenna Connection	Two (2) SMA plugs (male)
Antenna Connector Torque	3–5 lb∙in [0.3–0.6 N∙m]
SIM size	Standard SIM (2FF)
FCC ID	XMR201605EC25A

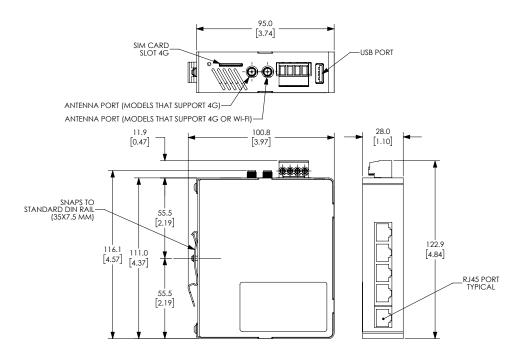
4G LTE Specificatio	G LTE Specifications (P/N SE-SL3011-4GG Only)	
Protocols and Frequencies (Global)	LTE FDD: B1,B2,B3,B4,B5,B7,B8,B12,B13,B18,B19, B20,B25,B26,B28 LTE TDD: B38,B39,B40,B41 WCDMA: B1,B2,B4,B5,B6,B8,B19 GSM: B2,B3,B5,B8 GPRS: B2,B3,B5,B8	
Speed	LTE-FDD: Max. 150 Mbps (DL)/Max. 50 Mbps (UL) LTE-TDD: Max. 130 Mbps (DL)/Max. 30 Mbps (UL) WCDMA: Max. 384 kbps (DL)/Max. 384 kbps (UL) GSM (EDGE): Max. 296 kbps (DL)/Max. 236.8 kbps (UL) GPRS: Max 107 kbps (DL)/Max. 85.6 kbps (UL)	
Antenna Connection	Two (2) SMA plugs (male)	
Antenna Connector Torque	3–5 lb∙in [0.3–0.6 N∙m]	
SIM size	Standard SIM (2FF)	
FCC ID	XMR201903EG25G	



SE-SL Series Industrial VPN Routers

Dimensions

mm [inches]



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



Cellular Antennas for SE-SL3011-4G and SE-SL3011-4GG Routers



<u>SE-ANT110</u> \$13.50

STRIDE whip/tilt LTE antenna, connector mount.





<u>SE-ANT150</u> \$41.00

STRIDE dome LTE antenna, IP67, panel mount, 9.8ft/3m cable length.

STRIDE whip/straight LTE antenna, magnetic base mount, 9.8ft/3m cable length.

4G LTE Antenna Specifications			
\$13.50	SE-ANT110 SE-ANT130* SE-ANT150		
Price	\$13.50	\$32.00	\$41.00
Fits	S	E-SL3011-4G and SE-SL3011-4G	G
Antenna Connector		SMA (M)	
Application	LTE, CDMA, GSM, HSPA, UMTS, GPRS		
Impedance	50Ω		
Antenna Type	whip, tilt	whip, straight	dome
Cable Length	N/A	3m [9.8 ft]	3m [9.8 ft]
Frequency Range	700–960MHz / 1.71–3.8 GHz	700–960MHz / 1.71–3.5 GHz	700–960MHz / 1.71–2.7 GHz
Gain	-3.0 dBi / 0.9 dBi	-2.5dBi / 0.1dBi	1.2 dBi / 3.2 dBi
Height	2.84 in	13 in	1.89 in
IP Rating	_	-	IP67
Maximum Power	10W	50W	5W
Mounting Screw Torque	NA	NA	2.94 N·m

* Gains listed are based on the antenna being mounted on a suitable ground plane.

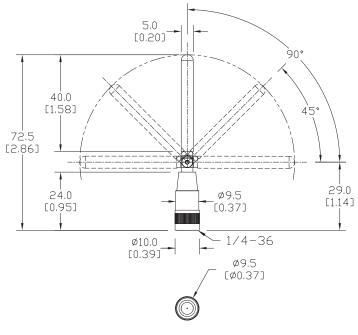


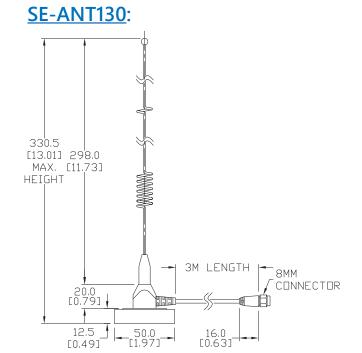
Cellular Antennas for SE-SL3011-4G and SE-SL3011-4GG Routers

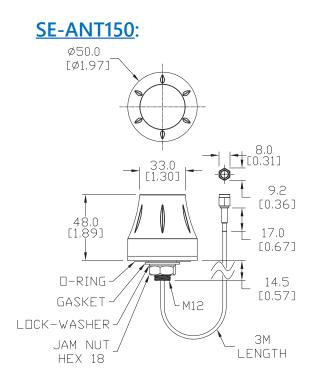
Dimensions

mm [inches]

SE-ANT110:







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



2.4GHz WiFi Antennas for <u>SE-SL3011-WF</u> Routers (1 antenna required)



STRIDE whip/straight 2.4 GHz WiFi antenna, IP65, connector mount.



STRIDE dome 2.4 GHz WiFi antenna, IP67, panel mount, 9.8ft/3m cable length.

802.11 b/g/n 2.4 GHz WiFi Antenna Specifications		
	<u>SE-ANT210</u>	<u>SE-ANT250</u>
Price	\$10.50	\$37.00
Fits	SE-SL3	011-WF
Antenna Connector	RP-SM	/A (M)
Application	802.1	l b/g/n
Impedance	50Ω	
Antenna Type	whip, straight dome	
Cable Length	N/A 3m [9.8 ft]	
Frequency Range	2.4–2.5 GHz 2.4–2.5 GHz	
Gain	1.8 dBi	1.5 dBi
Height	1.2 in	1.89 in
IP Rating	IP65 IP67	
Maximum Power	1W 5W	
Mounting Screw Torque	NA	2.94 N·m

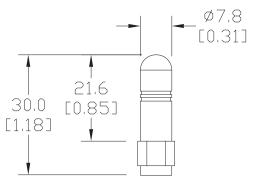


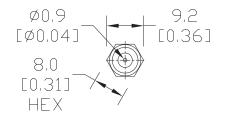
2.4GHz WiFi Antennas for <u>SE-SL3011-WF</u> Routers

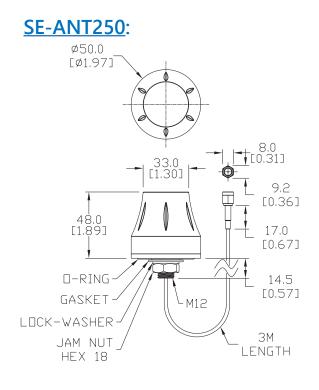
Dimensions

mm [inches]

SE-ANT210:







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

Cloud Logging licenses also include:

unlimited cloud storage for up to 7 years with active license,

unlimited real time and user configurable dashboards,

unlimited data reports, and unlimited data tags.

StrideLinx Remote Access Solution

Add-on Services – Add value to Remote Access

These licenses provide added services to your StrideLinx remote access. These are not needed for the basic function of the VPN remote access, but can be added to enhance the value of the platform to you and your customers.

StrideLinx Cloud Logging Options License Duration Data Logging 1 year 1 month (1 month savings) Points/hour Retired Retired 1,000 SE-SL010 SE-SL010-1 Retired Retired 5,000 SE-SL011 <u>SE-SL011-1</u> Retired 20,000 NA SE-SL012-1 Retired 50,000 NA SE-SL013-1 Retired 100,000 NA SE-SL014-1

* Before purchasing a Cloud Logging activation code, a 30-day free trail may be activated in your StrideLinx account from Fleet Manager.



WARNING: DATA COLLECTED THROUGH DATA LOGGING IS ONLY STORED FOR AS LONG AS YOU MAINTAIN YOUR PAID LICENSE. ALL DATA WILL BE LOST IF YOUR LICENSE LAPSES. DATA FOR A SPECIFIC DEVICE WILL BE LOST IF A LICENSE IS REMOVED FROM THAT DEVICE. DATA IS ALSO ONLY STORED FOR A MAXIMUM OF 7 YEARS. IF DATA OLDER THAN 7 YEARS IS IMPORTANT, PLEASE ARCHIVE YOUR DATA LOCALLY BEFORE THE 7-YEAR LIMIT IS REACHED.

StrideLinx Extra Monthly Data Usage Options

Extra Data Usage/Month	1 year (1 month savings)
15 GB	Retired <u>SE-SL031-1</u>
50 GB	Retired <u>SE-SL032-1</u>

StrideLinx Add-on Licenses			
Part #	Price	Term	Description
<u>SE-SL020</u>	Retired	Valid for router lifetime	StrideLinx notify license, valid for router lifetime, license includes alarm, trigger, recipient, and priority management with push and email notifications. For use with (1) StrideLinx router.
<u>SE-SL040</u>	Retired	Valid for company lifetime	StrideLinx premium branding license, valid for company lifetime, license includes white label StrideLinx platform with custom company domain and custom router faceplate graphics. For use with (1) StrideLinx company.
<u>SE-SL050</u>	Retired	Valid for initial setup and first year	StrideLinx mobile app branding setup license, valid for initial setup and first year, license includes creation of white label StrideLinx iOS/Android mobile app with custom corporate identity and company name. For use with (1) StrideLinx company.
<u>SE-SL051</u>	\$936.00	Valid for 1 year	StrideLinx mobile app sustained service license, valid for 1 year, license includes sustained service of white label StrideLinx iOS/Android mobile app with branding. For use with (1) existing white label StrideLinx iOS/Android mobile app.

* Before purchasing a Cloud Notify activation code, a 30-day free trail may be activated in your StrideLinx account from Fleet Manager.

1-800-633-0405

Stride Modbus Gateway



Stride Modbus Gateway Models				
Part Number Price RJ45 10/100 Serial D-sub 9-pin Input Power (Max.)				
<u>SGW-MB1511-T</u>	Retired	1	1	1 8 W
<u>SGW-MB1512-T</u>	Retired	1	2	1.0 VV
<u>SGW-MB1524-T</u>	Retired	2	4	3.2 W

Ethernet Interface			
Port Type	Shielded RJ45		
Speed	10/100 Mbps		
Protection	Built-in 1.5 kV magnetic isolation		
Protocol Supported	Modbus TCP/IP Client and Server		
Modbus TCP Devices Supported	16 simultaneous Modbus TCP connections per Ethernet port		
Cable Type	Autodetects Ethernet cable types (MDI/ MDIX)		
Default IP address	192.168.0.249; 192.168.1.249 (2 port model)		

Serial Interface		
Port	D-sub 9-pin male port	
Interface Mode	RS-232, RS-485 and RS-422	
Supported Baud Rates	300bps – 460.8 kbps	
Parity	Odd, Even or None	
Data Bits	7 or 8 bits	
Stop Bits	1 or 2	
Flow Control	RTS or None	
Termination	DIP-Switch to Enable/Disable 120Ω matching resistor for RS-485	
ESD Protection	15kV for all signals	
Isolation Protection	2kV	
Serial Devices Supported	128 slaves or 1 master per port	
Protocols Supported	Modbus RTU, Modbus ASCII	

Reset to Factory Defaults:

Press recessed Hardware Reset button on top of gateway housing and hold for 5 seconds to reset all settings to factory default.



NOTE: For additional product details, a user manual,<u>SGW-USER-M</u>, is available as a downloadable PDF file from the Online Documentation area of the AutomationDirect website.

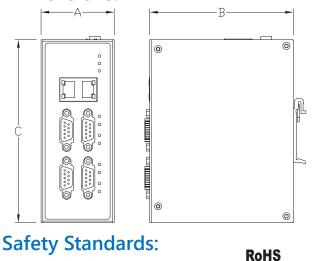
- Industrial 1, 2, or 4 serial port, and 1 or 2 Ethernet port Modbus Gateways (Modbus RTU/ASCII <-> Modbus TCP)
- Automatic read function "Agent Mode"
- Ethernet ports each support up to 16 TCP devices, client or server
- Serial ports each support up to 128 slave devices or 1 master device
- DIP switch selectable termination resistor for RS-485 mode
- High Serial Isolation Voltage 2kV
- UL61010 with Class 1 Div 2 HazLoc
- Metal housing with wide temperature rating (-40 to +75 deg C)

Power Details		
Power Consumption	See Input Power in STRIDE Modbus Gateway Models table	
Power Input	Redundant input terminals	
Input Voltage	12 / 24 / 48 VDC	
Appliance Class Class III, SELV power source		
Reverse Power Protection Yes		
Overload Protection	Yes	

Envi	ronmental	
Operating Temperature Range -40 to +75 °C [-40 to +167 °F]		
Storage Temperature Range	-40 to +85 °C [-40 to +185 °F]	
Humidity	5 to 95% RH (non-condensing)	
Maximum Altitude	2000m	
Environmental Air	For use in Pollution Degree 2 Environment	
Protection Level	Metal case, IP40	
Agency Approvals	UL61010-1, UL61010-2-201, Class I Div 2 12.12.01-2015; CSA C22.2 No. 213-16; CAN/ CSA No. 61010-1-12; CAN/CSAC22.2 No. 61010-2-201:14, CE, FCC	
	EN 55032 Class A	
EMI	FCC Part 15 Subpart B Class A	
	IEC61000-4-2(ESD): ±6kV(contact),±8kV(air)	
	IEC 61000-4-3(RS): 10V/m (80MHz–2GHz)	
EMS	IEC61000-4-4(EFT): Power Port:±2kV; Data Port:±1kV	
	IEC61000-4-5(Surge): PowerPort: ±1kV/DM, ±2kV/CM; Data Port:±1kV	
	IEC 61000-4-6 (CS): 10V(150KHz-80MHz)	
	IEC60068-2-6(Vibration)	
Mechanical Standards	IEC60068-2-27(Shock)	
	IEC60068-2-32(Free Fall)	

		LED Status Indicators
PWR1 (green) LED ON indicate		LED ON indicates voltage applied to Power 1 terminals.
PWR2	(green)	LED ON indicates voltage applied to Power 2 terminals.
RUN (g	ireen)	LED ON indicates the gateway is booting. LED FLASHING indicates the gateway is functioning normally.
RJ45	Speed (yellow)	LED ON indicates Ethernet speed is 100 Mbps. LED OFF indicates Ethernet speed is 10 Mbps
Ports	Link/Activity (green)	LED ON indicates valid link is established. LED FLASHING indicates data traffic.
Serial	T, transmit (green)	LED FLASHING indicates gateway is sending data through serial port.
Ports	R, receive (green)	LED FLASHING indicates gateway is receiving data through serial port.

Dimensions:



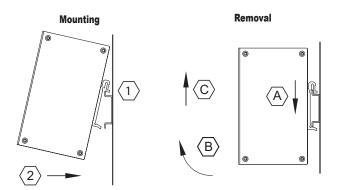
(ϵ) US **RoHS Compliant**

Installation – DIN Rail Mounting:

These devices are open-type and are meant to be installed in an enclosure which is only accessible with the use of a tool and suitable for the environment when installed in Class 1, Division 2 Hazardous Locations. The gateway may be used indoors only. The gateway can be snapped onto a standard 35 mm x 7.5 mm height DIN rail (Standard: CENELEC EN50022) and can be mounted either vertically or horizontally. Allow 20mm (0.79") clearance between a STRIDE gateway and other equipment on the DIN rail.

DIN rail mounting steps:

- 1. Hook top back of unit over the DIN rail.
- 2. Push bottom back onto the DIN rail until it snaps into place.
- DIN rail removal steps:
- A. Push the unit down to free the bottom of the DIN rail.
- B. Rotate the bottom of the unit away from the DIN rail.
- C. Unhook top of unit from DIN rail.



WARNING: THE FOLLOWING INFORMATION APPLIES WHEN OPERATING THIS DEVICE IN HAZARDOUS LOCATIONS: SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C AND D HAZARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.

WARNING: EXPLOSION HAZARD

- DO NOT DISCONNECT EQUIPMENT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS.
- SUBSTITUTION OF ANY COMPONENT MAY IMPAIR SUITABILITY FOR CLASS I. DIVISION 2.

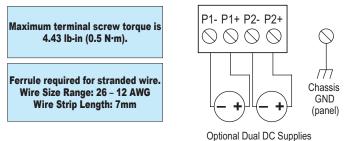
Dimensions				
Davit Na	Mainhi	Width (A)	Depth (B)	Height (C)
Part No.	Weight	mm [inches]		
<u>SGW-MB1511-T</u>	0.17 kg [0.36 lb]	101 11 0 00	68.0 [2.68]	115 0 [/ 52]
SGW-MB1512-T	0.17 kg [0.37 lb]	30.0 [1.18]	00.0 [2.00]	115.0 [4.53]
<u>SGW-MB1524-T</u>	0.32 kg [0.71 lb]	54.0 [2.13]	106 [4.17]	135.0 [5.32]

Power Wiring:

The switch can be powered from the same DC source that is used to power your other devices. To maintain the UL listing, this must be an SELV power supply. A DC voltage in the range of 12 to 48 VDC needs to be applied between the P1+ terminal and the P1terminal as shown below. The chassis screw terminal should be tied to panel or chassis ground. To reduce down time resulting from power loss, the switch can be powered redundantly with a second power supply as shown below. A recommended DC power supply is AutomationDirect.com part number PSL-24-010.

Terminal block connector is Degson 2EDGK-5.08-04P-14-1000AH or equivalent.

Redundant DC Power



Communication Ports Wiring:

8 pin RJ45	Ethernet Port			
	Pin	MDI-X Signal	MDI Signal	
╎┍╼╔┯┯┯┱	1	Receive Data + (RD+)	Transmit Data + (TD+)	
	2	Receive Data - (RD-)	Transmit Data – (TD–)	
	3	Transmit Data + (TD+)	Receive Data + (RD+)	
	6	Transmit Data – (TD–)	Receive Data - (RD-)	
	4, 5, 7, 8	Unused	Unused	

Note: + and - indicate level polarities.

	Serial Port			
	Pin	RS-232	RS-422/485–4w	RS-485–2w
D-sub 9-pin port	1	-	RXD – (B)	-
$\bigcirc \begin{pmatrix} 1 \circ \circ \circ \circ \circ \circ \\ 6 \circ \circ \circ \circ \circ 9 \end{pmatrix} \bigcirc$	2	RXD	RXD + (A)	-
	3	TXD	TXD – (Z)	Data – (B)
	4	RTS	TXD + (Y)	Data + (A)
	5	GND	GND	GND
_	6, 7, 8, 9	Unused	Unused	Unused



Pocket Portal IIoT Bridge





Stride Pocket Portal IIoT Bridge

Features

- Wireless Industrial IoT end-to-end solution to log your data in the cloud
- Faster Monitoring: Unmonitored assets can get connected and become monitored assets in minutes
- Remote Control: Write to Modbus coils, registers, or 3.3-24 VDC digital outputs using the mobile app
- Reduce Costs: Enterprises can implement IIoT capabilities without needing technical expertise and without modifying equipment
- Retrofit Solution: Industrial controls, commercial buildings, retail spaces, or factories can be entirely retrofitted with IIoT capabilities in days instead of months
- Work Smarter: Continuously monitor and optimize asset performance





* Requires Wi-Fi Internet connection

* iOS/Android device with Bluetooth needed for provisioning

Modbus Interface		
Port Connector 4-pin pigtail connector (shared with power)		
Interface Mode RS-485		
Serial Devices Supported 1 Modbus Slave		
Protocols Supported Modbus RTU Master		

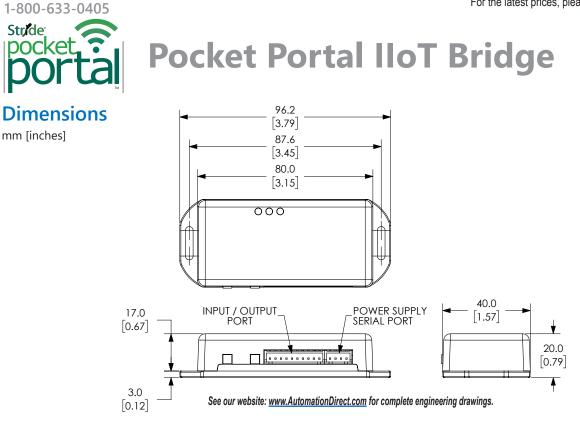
Local Digital and Analog I/O		
Digital Input/Output	4 Connections configured as Input/Output (3.3–24 VDC)	
Analog Input 2 Analog Inputs (0–10 VDC / 4–20 mA)		

Wi-Fi Interface for Cloud Connectivity		
IEEE Wi-Fi Standard 802.11 b/g/n		
Speed	Up to 72.2 Mbps	
Frequency Band	2.4 GHz	
Antenna	Internal PCB Antenna	

Power Details	
Input Voltage	12–24 VDC
Max. Input Voltage Range	10-26VDC
Power Consumption	Max 10W
Reverse Power Protection	Yes
Overload Protection	No

LED Indicators		
Wi-Fi LED	LED OFF: Wi-Fi not provisioned SLOW BLINK: Connecting to Wireless Access Point FAST BLINK: Connecting to Pocket Portal Cloud Service LED ON: Connected to Pocket Portal Cloud Service	
Power LED	LED OFF – Power OFF LED ON – Power ON	
BLE LED (Bluetooth Low Energy, used in initial setup only)	LED OFF – BLE off or not advertising SLOW BLINK – BLE advertising LED ON – Connected to mobile app	

Environmental		
Operating Temperature Range	-20°C to +70°C [-4°F to 158°F]	
Storage Temperature Range	-40°C to +85°C [-40°F to +185°F]	
Humidity	5 to 85% RH (non-condensing)	
Protection Level	plastic case, IP40	
-n#	EN 55032 Class A	
EMI	FCC Part 15 Subpart C (15.247)	
	IEC61000-4-2 (ESD): ±4kV (contact), ±8kV (air discharge)	
EMS	IEC 61000-4-3 (RS): 10V/m (80MHz–6GHz)	
	IEC 61000-4-6 (CS): 10V (150KHz-80MHz)	
	IEC60068-2-64 (Random Vibration)	
Mechanical Standards	IEC60068-2-32 (Drop Test / Free Fall)	
Agency Approvals	CE, FCC	



DIN Rail Mounting Brackets

The Pocket Portal IIoT Bridge can be directly mounted to a flat surface, with no restrictions on mounting orientation. An optional DIN-rail adapter will allow mounting on a standard 35mm x 7.5 mm DIN rail.

DIN Rail Mounting Brackets		
Part Number	Part Number Price Description	
DRA-2B	\$6.00	35mm DIN rail adapters, 1.70"x0.45"x0.83" [43.7x11.4x21.0 mm], 2pcs/pkg.





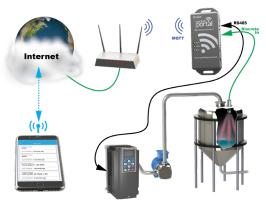
NOTE: Installation in a metal cabinet is not recommended, as the cabinet may block the Wi-Fi signal.

Data Subscriptions

Each Pocket Portal IIoT Bridge requires a Pocket Portal monthly data subscription. Subscriptions are available at <u>https://www.pocketportal.com</u>.

Pocket Portal Platform Subscriptions		
	<u>SE-PP5M</u> <u>SE-PP500K</u>	
Price	\$15.50/mo.* \$8.25/mo.*	
Description	Data Logging and Notify Gold Data Logging and Notify S Subscription Subscription	
Subscription Duration	Monthly or Annual Up to 23% discounts available for annual subscriptions.	
Supports	(1) STRIDE Pocket Portal IIoT bridge	

* Available for purchase only on the Stride Pocket Portal platform at <u>https://www.pocketportal.com</u>. Details and limits for each subscription are available on the Pocket Portal platform.



Stride MQTT Gateway

1-800-633-0405



Features

- Convert Modbus RTU/TCP to MQTT
- IIoT MQTT protocol with SSL/TLS
- Configurable via web page
- Hardware watchdog function
- Full electrical isolation
- Add this to your MQTT cloud, compatible with AWS, Mosquitto and more
- Wired or Wi-Fi models available



Stride MQTT Gateway Models				
Part Number	Ethernet	RS-485	WiFi	Price
<u>SGW-MQ1611</u>	\checkmark	\checkmark		\$275.00
SGW-MQ1611-WF	\checkmark	\checkmark	\checkmark	\$279.00

Ethernet Specifications	
Connector RJ-45	
Ethernet Port Speed 10/100Mbps auto-detected	
Protocol MQTT, Modbus TCP	
Simultaneous Ethernet Connections	8

WiFi Specifications (Model SGW-MQ1611-WF Only)		
WiFi Standards	802.11 a/b/g/n/ac	
Frequency Bands	2.4/5.5 GHz	
Antenna	Internal	

Network Ports	
Web User Interface 80	
Modbus 502 (default, software configurable	
ΜQTT	Software configurable, determined by MQTT Broker

RS-485 Specifications	
Connector Removable screw terminals, 5.08 mm pitc	
Baud rate Up to 115.2 kbps	
Parity	Even, odd or none
Stop bit	1 or 2
Number of Serial Devices	32 max.
Switching Time TX/RX (RS-485)	150µs
Termination Resistance	120Ω



1-800-633-0405

Stride MQTT Gateway

Electrical Specifications	
Power Supply Connector Removable screw terminals, 5.08 mm pitch	
Input Voltage Range 10–30 VDC	
Current Consumption max 300mA @ 24VDC	
Isolation Power Supply / RS-485 Ethernet / RS-485 Ethernet / Power Supply	1500VAC, 50Hz, 1 min. 1000VAC, 50Hz, 1 min. 1500VAC, 50Hz, 1 min.
Reverse Polarity Protection Yes	

Mechanical Specifications	
Material Self-extinguishing plastic	
Mounting	35mm DIN rail (EN50022 and EN50035)
Weight	Approximately 200g

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NOTE: Installation of the Wi-Fi model in a metal cabinet is not recommended, as the cabinet may block the Wi-Fi signal.

Environmental Specifications		
Operating Temperature	0°C to +60°C [32°F to 140°F]	
Storage Temperature	-20°C to +70°C [-4°F to +158°F]	
Humidity	0–90%, noncondensing	
Maximum Altitude	2000m	
IP Rating	IP20	
Installation	Indoor	
Category of Installation	II	
Pollution Degree	2	
ЕМС		
Immunity	EN61000-6-2	
Emission	EN61000-6-4	
Agency Approvals	CE, FCC, RoHS	

