

10 & 18 port SNMP and Modbus/TCP Capable Ethernet Switches

SEC310-2SFP-T, SEC318-2SFP-T

B+B SMARTWORX

Powered by

ADVANTECH



SEC310-2SFP-T

eWorX™

SEC318-2SFP-T

PRODUCT FEATURES

- Wide Temperature Range -40 to 75°C
- DIN Rail or Wall/Panel Mountable
- Dual 12 to 48VDC Power Inputs for Redundancy
- Energy Efficient Ethernet (EEE), IEEE 802.3az for Low Power Applications
- EMS Level 3 Protection
- Safety Certifications including Class 1 Division 2 and Atex
- Port-based QoS feature for Deterministic Data Transmission
- Loop Detection and Event Alarm
- Power Failure indicated by a Relay and LED Indicator
- Communicates with SCADA Software via Modbus/TCP
- Communicates with NMS (Networking Management System) via SNMP

INTRODUCTION

Our industrial grade SE300 series switches can be used as plug and play, unmanaged switches right out of the box. Installing the eWorX Utility gives them basic management capabilities, as well. They bridge the gap between unmanaged switches and significantly more expensive, fully managed solutions.

When enabled with the eWorX Utility, these switches use Modbus/TCP to communicate with SCADA software and SNMP to communicate with NMS (Networking Management System) at the same time. This gives full read control to both control engineers and IT. They are equipped with port-based QoS for deterministic data transmission. The QoS port has priority over other ports. The eWorX Utility enables IP address assignment, allowing for a static IP address or an address that is discoverable via DHCP.

SPECIFICATIONS

COMMUNICATIONS

Standards	IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az
LAN	10/100/1000Base-T(X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX
Transmission Distance	Ethernet: Up to 100m (4-wire Cat.5e, Cat.6 RJ-45 cable suggested for Gigabit port) SFP: Up to 110km (depends on SFP)
Transmission Speed	Ethernet: 10/100Mbps Auto-Negotiation Gigabit Copper: 10/100/1000Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000Mbps

INTERFACE

Connectors	SEC310-2SFP-T: 8 x Fast Ethernet (RJ45) + 2 x Giga (RJ45/SFP) combo ports SEC318-2SFP-T: 16 x Fast Ethernet (RJ45) + 2 x Giga (RJ45/SFP) combo ports
LED Indicators	6-pin removable screw terminal (power & relay) P1, P2, P-Fail, Loop Detection 10/100T(X): Link/Activity, Speed Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity

SWITCH PROPERTIES

MAC Table Size	8k
Packet Buffer Size	4.1M bit
Switching Capacity	SEC310-2SFP-T: 5.6 Gbps SEC318-2SFP-T: 7.2 Gbps
Jumbo Frame	9126 bytes

POWER

Power Consumption	SEC310-2SFP-T: 5.8W SEC318-2SFP-T: 8.2W
Power Input	12 ~ 48 VDC (8.4 ~ 52.8 VDC), redundant dual inputs
Fault Output	1 Relay Output

ORDERING INFORMATION

MODEL NUMBER DESCRIPTION

SEC310-2SFP-T	8FE + 2GE Combo Ethernet, Wide Temperature
SEC318-2SFP-T	16FE + 2GE Combo Ethernet, Wide Temperature

ACCESSORIES

- MDR-40-24 - DIN Rail Power Supply 24VDC 40 Watt
- C5UMB3FBG - 3 ft. (1 M), Gray, Category 5e UTP Patch Cord
- C5UMB7FBG - 7 ft. (2 M), Gray, Category 5e UTP Patch Cord
- 808-38102 - IE-SFP 100 to 155 Mbps (OC-3), MM850-LC, 2km
- 808-38104 - IE-SFP 100 to 155 Mbps (OC-3), SM1310/PLUS-LC, 40km
- 808-38200 - IE-SFP 1250 Mbps to 1.25 Gbps (OC-24), SM1310-LC, 20km
- 808-38201 - IE-SFP 1250 Mbps to 1.25 Gbps (OC-24), MM850-LC, 2250/550m
- 808-38203 - IE-SFP 1250 Mbps to 1.25 Gbps (OC-24), SM1310/PLUS-LC, 30km



MECHANICAL

Dimensions (WxHxD)	74 x 120 x 84 mm
Enclosure	IP30, metal shell with solid mounting kits
Mounting	DIN-Rail, Wall

PROTECTION

Reverse Polarity	Present
Overload Current	Present

ENVIRONMENT

Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% (non-condensing)
Storage Humidity	10 ~ 95% (non-condensing)

MTBF	SEC310-2SFP-T: 3,183,604 hours SEC318-2SFP-T: 2,825,281 hours
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CERTIFICATIONS

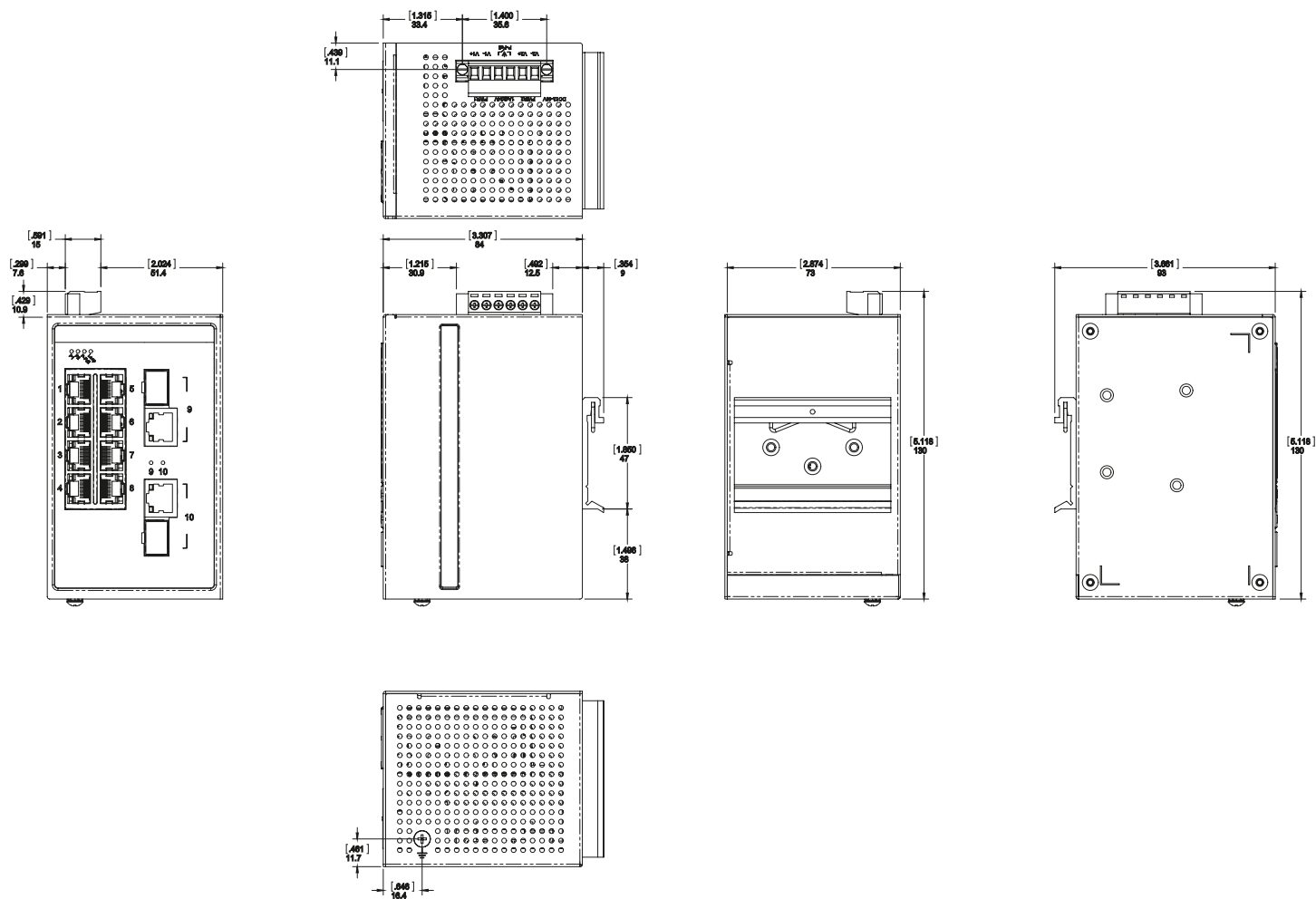
Safety	IEC/EN60950, UL60950, UL508, Class 1 Division 2, ATEX
EMI	FCC Part 15 Subpart B Class A, EN 55011/55022, Class A
EMS	EN 61000-4-2 (Level 3), EN 61000-4-3 (Level 3) EN 61000-4-4 (Level 3), EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3), EN 61000-4-8 (Level 3)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

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SEC310-2SFP-T MECHANICAL DIAGRAM DIN RAIL MOUNT

Units = [inches] mm

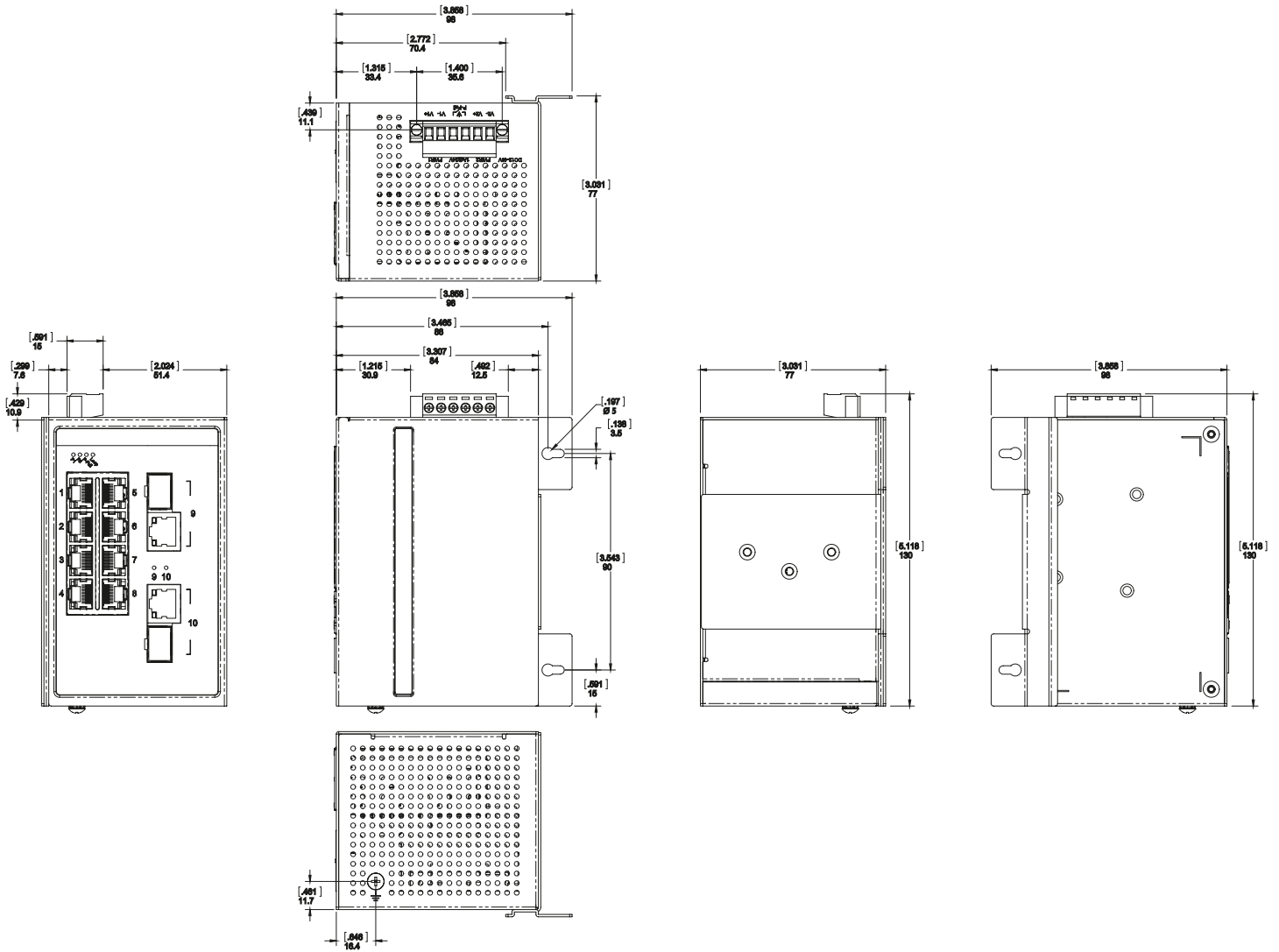


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SEC310-2SFP-T MECHANICAL DIAGRAM WALL MOUNT

Units = [inches] mm

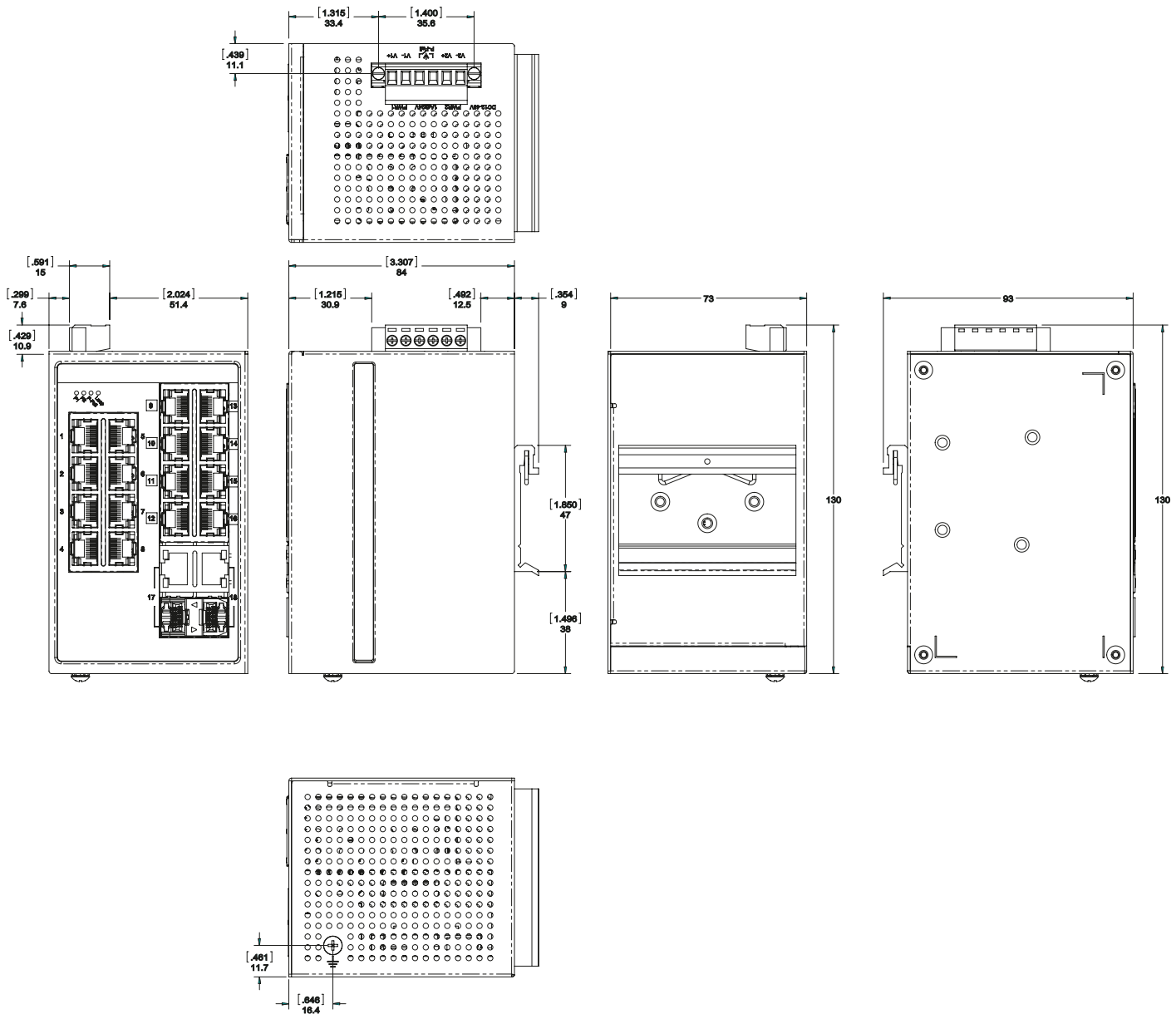


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