

16 port SNMP and Modbus/TCP Capable Ethernet Switch

SE316-T

B+B SMARTWORX

Powered by

ADVANTECH



eWorX™
SE316-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, 802.3ab
LAN	10/100Base-T(X)
Transmission Distance	Up to 100 m
Transmission Speed	Up to 100 Mbps

INTERFACE

Connectors	16 x RJ45 6-pin removable screw terminal (power & relay)
LED Indicators	P1, P2, P-Fail, Loop detection 10/100T (X): Link/Activity, Speed

SWITCH PROPERTIES

MAC Table Size	8k
Packet Buffer Size	128K bit
Switching Capacity	3.2 Gbps
Jumbo Frame	2048 bytes

POWER

Power Consumption	Maximum 3.84 W
Power Input	12~48 VDC (8.4~52.8 VDC), redundant dual inputs
Fault Output	1 Relay Output

ORDERING INFORMATION

MODEL NUMBER DESCRIPTION

SE316-T	16-port Fast Ethernet Switch with Wide Temperature
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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



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	4,653,552 hours

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

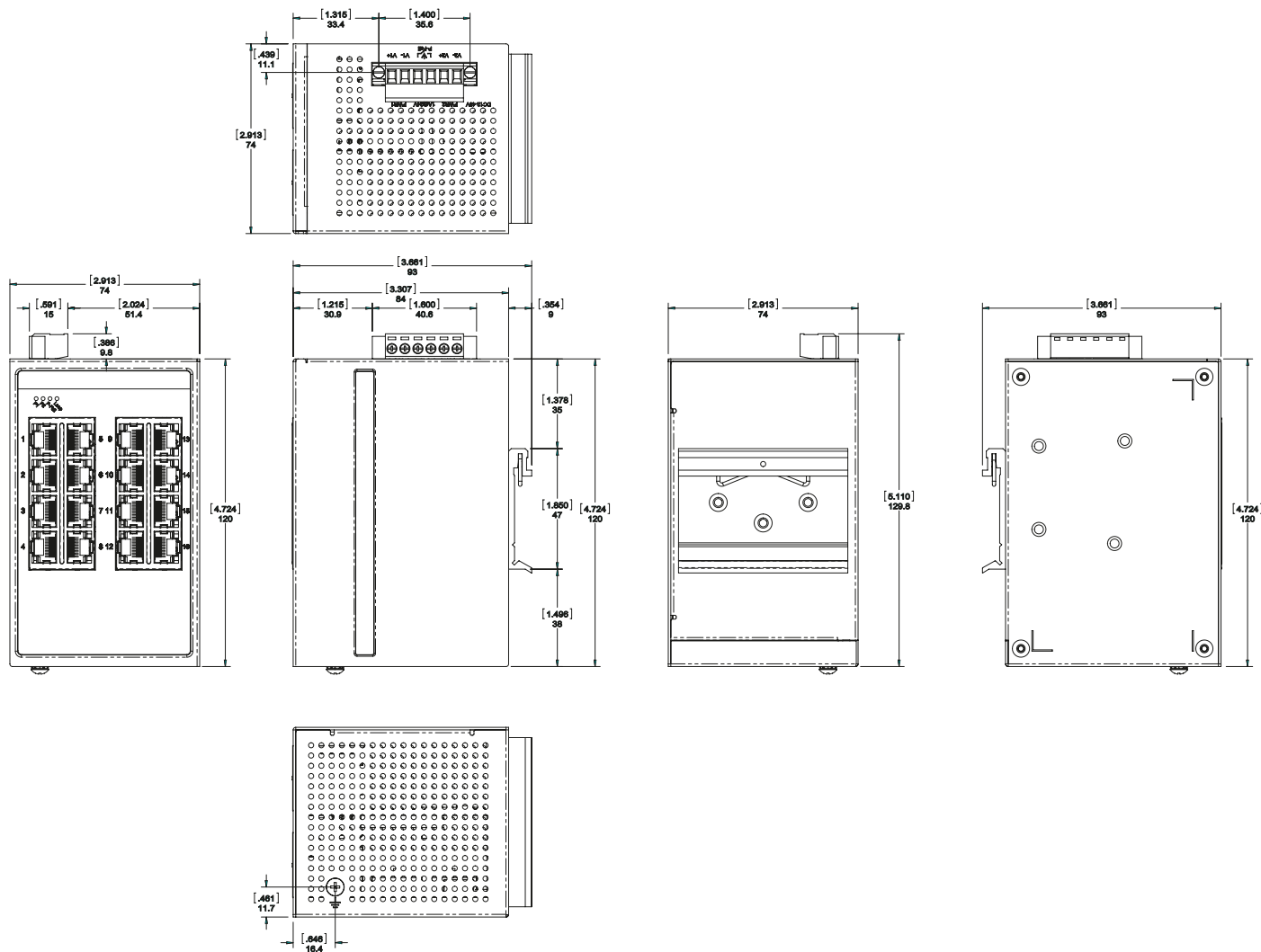
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SE316-T MECHANICAL DIAGRAM DIN RAIL MOUNT

Units = [inches] mm



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SE316-T MECHANICAL DIAGRAM WALL MOUNT MOUNT

Units = [inches] mm

