16 port GB SNMP & Modbus/TCP Capable Ethernet Switch

SEG316-T

B+B SMARTWORX

Powered by **ADVANTECH**

SEG316-T

*e*WORX™

SEG316-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.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
SEG316-T	16-port Gigabit Ethernet Switch with 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

CE FCC

SPECIFICATIONS

COMMUNICATIONS	
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab
LAN	10/100/1000Base-T(X)
Transmission Distance	Up to 100 m
Transmission Speed	Up to 1000 Mbps

INTERFACE	
Connectors	16 x RJ45 6-pin removable screw terminal (power & relay)
LED Indicators	P1, P2, P-Fail, Loop detection 10/100/1000T(X): Link/Activity, Speed

SWITCH PROPERTIES	
MAC Table Size	8k
Packet Buffer Size	4.1M bit
Switching Capacity	32 Gbps
Jumbo Frame	9126 bytes

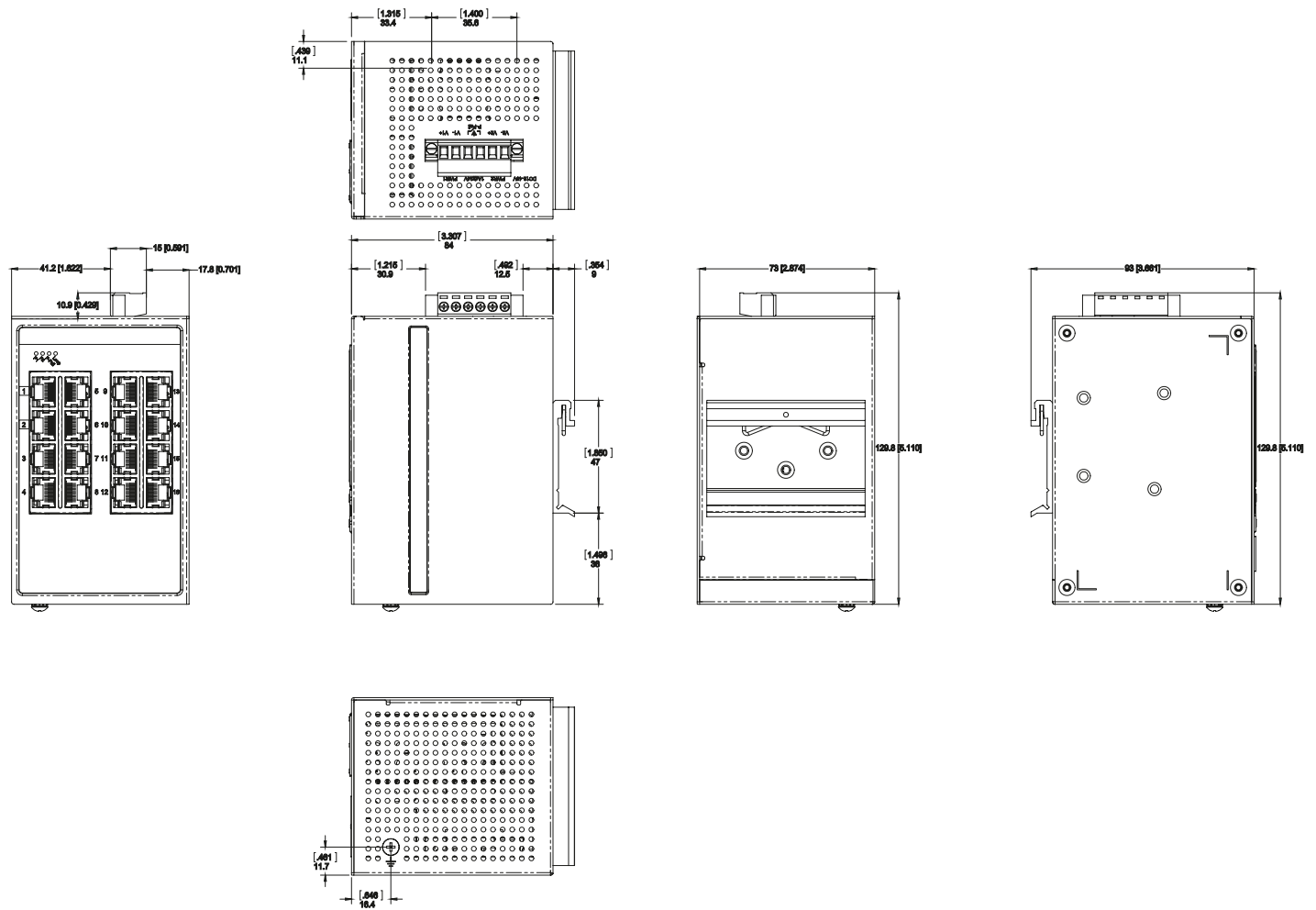| POWER	
Power Consumption	Max. 8 W
Power Input	12~48 VDC (8.4~52.8 VDC), redundant dual inputs
Fault Output	1 Relay Output

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	2,788,343 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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All product specifications are subject to change without notice.
SEG316-T_1416

SEG316-T MECHANICAL DIAGRAM
DIN RAIL MOUNT
Units = [inches] mm

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SEG316-T MECHANICAL DIAGRAM
WALL MOUNT
Units = [inches] mm