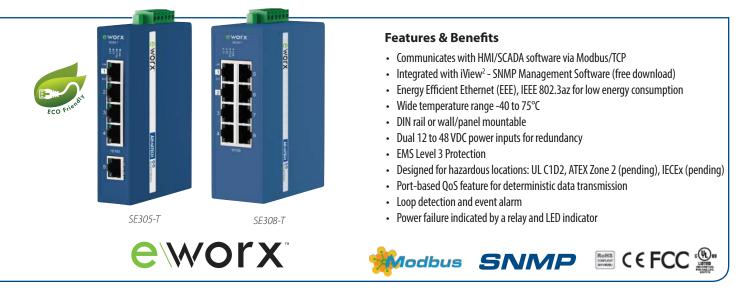
## **Monitored Ethernet Switches** 5 & 8 port, SNMP, Modbus/TCP

Models SE305-T, SE308-T



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#### Introduction

SE300 series is the industry's first design for Ethernet Green<sup>®</sup>, IEEE802.3az - Energy Ethernet switches that cut power usage by up to 60%, significantly saving energy usage in the field and reducing total cost of ownership over 24/7.

Advantech B+B SmartWorx SE300 series monitored switches can be used as plugand-play unmanaged switches right out of the box. Installing the iView<sup>2</sup> Network Management Software gives them basic monitoring and management capabilities as well. They bridge the gap between unmanaged switches and significantly more expensive, fully managed solutions.

When enabled with iView<sup>2</sup>, these switches provide IP address assignment, allowing for a static IP address or an address that is discoverable via DHCP in the network. Then, these switches have the ability to use Modbus/TCP to communicate with HMI/SCADA software and SNMP to communicate with NMS (Networking Management Software) at the same time. This gives full access control to both control engineers and IT managers.

### Specifications

COMMUNICATIONS				
Standards	IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az			
LAN	10/100Base-T(X)			
Transmission Distance	Up to 100 meters			
Transmission Speed	100 Mbps			
INTERFACE				
Connectors	SE305-T: 5 x RJ45. SE308-T: 8 x RJ45 6-pin removable screw terminal (power & relay)			
Ethernet	Auto Sensing, 10/100BaseTX, Duplex and MDIX			
LED Indicators	P1, P2, P-Fail, Loop detection 10/100T (X): Link/Activity, Speed			

## **Basic Monitoring & Management Capabilities**

iView<sup>2</sup> gives network managers the ability to monitor and manage eWorx SE300 series switches from a central location. It features an intuitive Graphical User Interface (GUI) that provides a real-life representation of all installed eWorx SE300 Series switches, displaying device functions, port settings, device status information and traffic statistics via SNMP.

iView<sup>2</sup> can also configure eWorx SE300 series switches monitoring capabilities for automation applications via the popular Modbus TCP/IP protocol. Control engineers can use existing HMI/SCADA software to integrate the network status by creating extra tags for real-time monitoring. iView<sup>2</sup> is a standalone software that supports multiple platforms and operating systems.

## iView<sup>2</sup> Features for eWorx SE300 series Switches Monitoring:

- System information (IP/MAC address)
- Port status
- Port speed
- Flow control
- Link up counter
- TX packets counter, RX packets counter
- TX error packets counter, RX error packets counter
- Firmware version
- PoE status (PoE model/s only)

#### Management:

- Configure IP mode
- Set IP address
- Set TCP Modbus/TCP time-out
- Create Community Strings
- Configure Traps

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## Specifications - continued

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SWITCH PROPERTIES		ENVIRONMENT				
MAC Table Size	SE305-T: 2k. SE308-T: 8k	Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)			
Packet Buffer Size	SE305-T: 1M bit. SE308-T: 128K bit	Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)			
Switching Capacity	witching Capacity SE305-T: 1Gbps. SE308-T: 1.6 Gbps		10 ~ 95% (non-condensing)			
Jumbo Frame	SE305-T: 9216 bytes. SE308-T: 2048 bytes	Storage Humidity	10 ~ 95% (non-condensing)			
POWER		MTBF	SE305-T: 5,168,110 hours. SE308-T: 5,235,270 hours			
Power Consumption	SE305-T: Max. 2W. SE308-T: Max. 3.6W	CERTIFICATIONS				
Power Input	12~48 VDC (8.4~52.8 VDC) redundant dual inputs	Hazardous Environments	UL Class 1 Division 2 Groups A,B,C,D; ATEX Zone 2 (pending); IECEx (pending)			
Fault Output	1 Relay Output	Safety	UL508			
Reverse Polarity Protection	Present	EMI	FCC Part 15 Subpart B Class A, EN 55011/55022, Class A			
Overload Current	Present	THC.	EN 61000-4-2 (Level 3), EN 61000-4-3 (Level 3)			
PHYSICAL		EMS	EN 61000-4-4 (Level 3), EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3), EN 61000-4-8 (Level 3)			
Dimensions (WxHxD)	SE305-T: 27x120x84 mm. SE308-T: 43x120x84 mm	Shock	IEC 60068-2-27			
Enclosure	IP30, metal shell with solid mounting kits	Freefall	IEC 60068-2-32			
Mounting	DIN-Rail, Wall	Vibration	IEC 60068-2-6			

**Specifications - continued** 

SOFTWARE		
Management	iView <sup>2</sup> , LLDP, SNMP v1/v2c, Modbus/TCP	
Configuration	Static IP address, DHCP Client	
Monitoring	Port Statistics (Speed/Status), Link Up/Down counter, Error Packet counter, Loop detection	
Filter	Flow control, IEEE 802.1p QoS (Strict mode), Broadcast storm protection	
Industrial Profiles	Modbus/TCP profiles included - Configuration and Diagnostic via automation software tools like e.g. Wonderware InTouch, STEP7, InduSoft Web Studio	

IVIEW <sup>2</sup> - NETWORK MANAGEMENT SOFTWARE - FREE DOWNLOAD					
Version	iView <sup>2</sup> Web-based Application				
OS Support	32-bit/64-bit Windows XP/Vista/7, Windows Server 2003/2008/2008 R2				
Operation Modes	Local Computer or Remote Server				
Web Browser	Microsoft® IE, Chrome, Firefox				
Protocol	SNMPv1 and SNMPv2c				

## **Product Ordering Information**

			RJ45		FIBER				
MODEL #	DESCRIPTION	OPERATING TEMPERATURE	10/100 MBPS	GIGABIT	100FX	100/1000BASE-SFP	COMBO PORT, 10/100/1000BASE-T(X) OR 100/1000BASE-SFP	ТҮРЕ	CONNECTOR
SE305-T	5-port 10/100 Monitored Ethernet Switch	-40~75°C	5	-	-	-	-	-	-
SE308-T	8-port 10/100 Monitored Ethernet Switch	-40~75°C	8	-	-	-	-	-	-

#### **Accessories - optional**

MODEL #	DESCRIPTION		
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		

### Package Checklist

Ethernet Switch, Quick Start Guide, DIN-Rail mount bracket (installed), Wall mount bracket

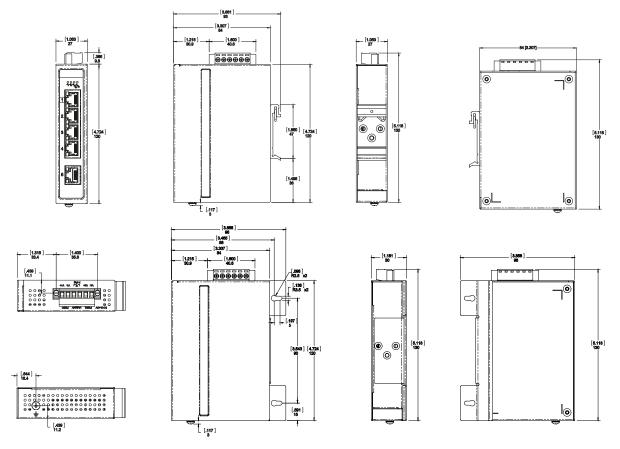
#### Warranty

Limited lifetime warranty for Advantech B+B designed and/or manufactured products.



## Model SE305-T Mechanical Diagram | DIN Rail & Panel Mount Options

Units = [inches] mm



## Model SE308-T Mechanical Diagram | DIN Rail & Panel Mount Options Units = [inches] mm

