Monitored Ethernet Switches 16 port, Gigabit, SNMP, Modbus/TCP Model SEG316-T

Powered by



B+B SMARTWORX







Features & Benefits

- Communicates with HMI/SCADA software via Modbus/TCP
- Integrated with iView² SNMP Management Software (free download)
- Energy Efficient Ethernet (EEE), IEEE 802.3az for low energy consumption
- Wide temperature range -40 to 75°C
- DIN rail or wall/panel mountable
- · Redundant dual 12 to 48VDC power inputs
- · EMS Level 3 Protection
- Designed for hazardous locations: UL C1D2, ATEX Zone 2 (pending), IECEx (pending)
- · Port-based QoS feature for deterministic data transmission
- Loop detection and event alarm
- · Power failure indicated by a relay and LED indicator







Introduction

SE300 series is the industry's first design for Ethernet Green, 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 iView² 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 iView², 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, 802.3ab, 802.3z, 802.1p, 802.3az
LAN	10/100/1000Base-T(X)
Transmission Distance	Up to 100 meters
Transmission Speed	100 Mbps
INTERFACE	
Connectors	16 x RJ45 6-pin removable screw terminal (power & relay)
Ethernet	Auto Sensing, 10/100/1000BaseTX, Duplex and MDIX
LED Indicators	P1, P2, P-Fail, Loop Detection 10/100/1000T (X): Link/Activity, Speed

Basic Monitoring & Management Capabilities

iView² 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.

iView² 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, iView² is a standalone software that supports multiple platforms and operating systems.

iView² 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

CWITCH PROPERTIES	
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MAC Table Size	8k
Packet Buffer Size	4.1M bit
Switching Capacity	32 Gbps
Jumbo Frame	9126 bytes
POWER	
Power Consumption	Max. 8W
Power Input	12~48 VDC (8.4~52.8 VDC) redundant dual inputs
Fault Output	1 Relay Output
Reverse Polarity Protection	Present
Overload Current	Present
PHYSICAL	
Dimensions (WxHxD)	74 x 120 x 84 mm
Enclosure	IP30, metal shell with solid mounting kits
Mounting	DIN-Rail, Wall

Specifications - continued

Specifications - continued							
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							
Hazardous Environments	UL Class 1 Division 2 Groups A,B,C,D; ATEX Zone 2 (pending); IECEx (pending)						
Safety	UL508						
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						

SOFTWARE				
Management	iView², 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 ² - NETWORK MANAGEMENT SOFTWARE - FREE DOWNLOAD					
Version	iView ² 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

				RJ4	5	FIBER				
ı	MODEL#	DESCRIPTION	OPERATING TEMPERATURE	10/100 MBPS	GIGABIT	100FX	100/1000BASE-SFP	COMBO PORT, 10/100/1000BASE-T(TX) OR 100/1000BASE-SFP	TYPE	CONNECTOR
S	EG316-T	16-port Gigabit Monitored Ethernet Switch	-40∼75°C	-	16	-	-	-	-	-

Accessories - optional

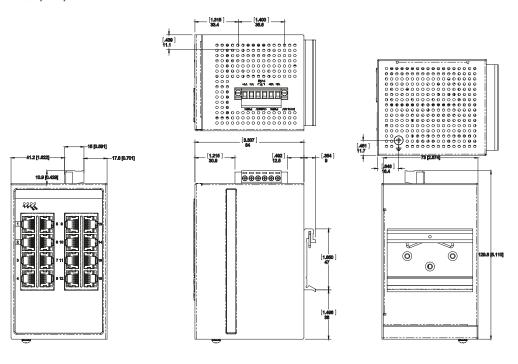
	MODEL#	DESCRIPTION				
MDR-40-24		DIN Rail Power supply, 24VDC 40 Watt				
C5UMB3FBG		3 ft. (1 M), Gray, Category 5e UTP Patch Cord				
	C5UMB7FBG	7 ft. (2 M), Gray, Category 5e UTP Patch Cord				

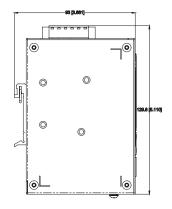
Package Checklist Ethernet Switch, Quick Start Guide, DIN-Rail mount bracket (installed), Wall mount bracket

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

Model SEG316-T Mechanical Diagram | DIN Rail Mount Option

Units = [inches] mm





Model SEG316-T Mechanical Diagram | Wall Mount Option

Units = [inches] mm

