



## FEATURE HIGHLIGHTS

- Remotely monitor, manage, and control industrial field devices
- Industrial EMC protection, Opt. Serial port Isolation, -20°C~70°C operation
- 2 Fast-Ethernet ports, dual-subnet or redundancy
- 8/16 sw-selectable RS-232/485/422 (\*) RJ45 serial ports, up to 921 kbps
- 24~48 VDC Power Input or 100~240 VAC Power input (EU or US version)
- TCP Server/Client, UDP, Virtual COM and Tunneling modes supported
- Supports SNMPv1/v2c/v3, Embedded security with IPsec VPN
- Configuration via Web Browser / Serial Console / Telnet Console / Windows Utility / LCM Matrix

## PRODUCT DESCRIPTION

### Make Serial Devices Ready to the Network

The Industrial Serial Device Server SE5908/16 is an advance gateway for Ethernet (TCP/IP) and serial signal communications; allowing any serial device to be connected to a new or existing Ethernet network. By encapsulating serial data and transporting it over Ethernet (both copper and fiber), offers full-duplex and bi-directional data seamlessly between the four available serial ports and the Ethernet network.

### Advanced embedded security

SE5908/SE5916 embeds IPsec VPN Encryption, that allows you to tunnel your data securely through the internet and prevent unauthorized control of your Serial Devices by malicious people.

### Easy to Use

Flexible configuration options enable this unit to be setup over Ethernet by Telnet, Web Browser, Serial Console, LCM display or our Windows Utility. Packed in a rugged metal housing for 19" Racks, it is ideal for almost any industrial and manufacturing automation process. Atop Virtual COM software provides a virtual environment for applications when accessing the device through TCP.

### Specifically Designed for Automation Fields

In industrial and manufacturing automation fields, SE5908/16 is used as a field device to connect the Ethernet through TCP/IP protocol directly. It is also specially designed for conjunction with PLCs, HMIs, Barcode Scanners, Data Terminals, and much more..

### Rugged and flexible for advanced developments

SE5908/16 embeds *high EMC protection*, programming and installation flexibility in one device. Our *SDK versions* allow you to make use of the powerful hardware and develop your own applications on top of Atop's reliable SDK. For more information about

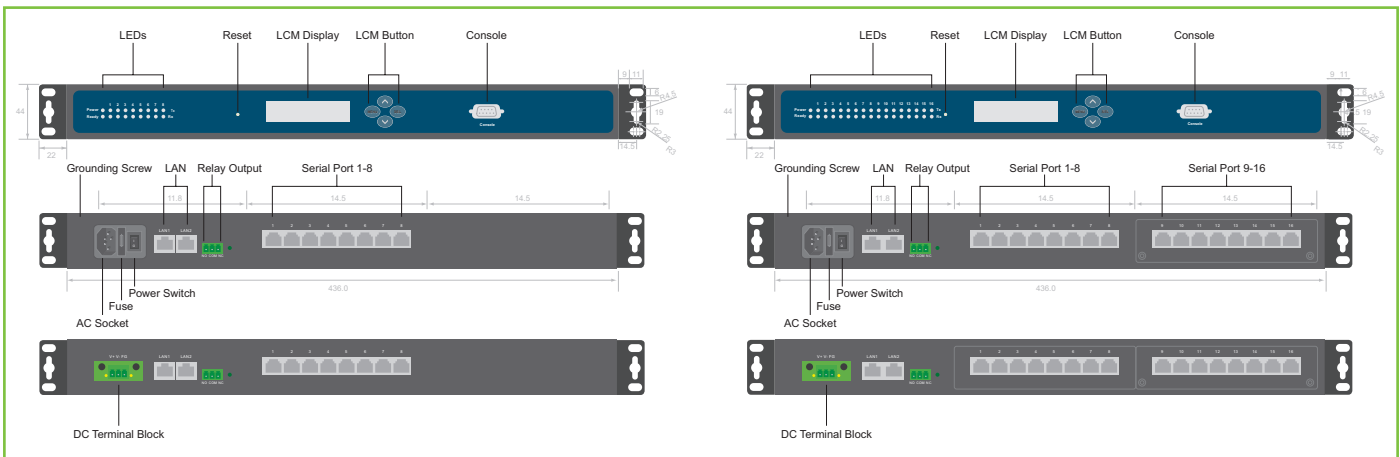
\* : RS-232/RS-485-RS-422 function is available on non-isolated versions. Isolated versions support RS-485 and RS-422 only

## SPECIFICATIONS

Technical Specifications	
Model Name	SE5908 SE5916
Network interface	
Speed	IEEE 802.3 10BaseT IEEE 802.3u 100BaseT(X)
LAN Mode	Dual Subnets or Network Redundancy
Connector ports	2x 10/100BASE-T(X) RJ-45
Serial Interface	
Connector	RJ45 RS-232/422/485 software selectable (-N models) or RJ45 Isolated RS-422/485 software selectable (-SiS models)
Ports	8 (SE5908) or 16 (SE5916)
Baud Rate	1,200 ~ 921,600 bps software selectable
Data Bits	5, 6, 7, 8 software selectable
Stop Bits	1, 2 software selectable
Parity	None, Odd, Even, Space, Mark
Flow Control	None, Xon/Xoff, RTS/CTS (RS-232 only)
Isolation	2.5 kV (-SiS models only)
Power	
Input Voltage Input Current Power Consumption	DC version: 24 - 48VDC; US-EU version: 100~240 VAC (EU or US Plug) DC version: 0.54 A @24VDC; US-EU version: 0.21A@100VAC Approximately 21 W (Max)
Connector	DC version: 5.08mm 3-pin Lockable Terminal Block EU-US version: IEC 60320-1 C14 AC Power Inlet
Power Redundancy	No
Reverse Polarity Protection	Yes (DC version only)
Relay Output	Yes (1)
Physical Characteristics	
Housing Dimension (W x H x D) Weight Installation Reset Button	IP30 SPCC housing 436 mm x 43.5 mm x 200 mm 3,000g (8-port version); 3,200 g (16-port version) 19" Rack-Mount (Kit included) Yes
Environmental Limits	
Operating Temperature Storage Temperature Ambient Relative Humidity	-20°C~70°C (-4°F~158°F) -40°C~85°C (-40°F~185°F) 5%~95% (Non-condensing)
Software	
Protocols	IPv4, ICMP, TCP, UDP, DHCP Client, SNMPv1,v2c,v3, HTTP, HTTPS, Telnet, RFC2217, Security through IPsec host-to-host or host-to-side VPN with up to 37.9Mbps VPN throughput

Configuration	Atop Management Utility, Web UI, Telnet, Serial Console
VirtualCOM	Windows/Linux redirection software
<b>Link Modes</b>	
TCP Client	Dual destination supports raw-data or VirtualCOM
TCP Server	4 Connections mode supports raw-data; VirtualCOM or reverse Telnet
UDP	Up to 4 Ranges IP

## DIMENSIONS & LAYOUT



## REGULATORY APPROVALS

Regulatory Approvals				
Safety	EN60950-1:2006/ IEC60950-1 LVD			
EMC	FCC Part 15, Subpart B, Class B EN 55022, Class B, EN 61000-3-2, EN 61000-3-3, EN 55024			
Test	Item	Value	Level	
IEC 61000-4-2	ESD	Contact Discharge	±8kV	4
		Air Discharge	±15kV	4
IEC 61000-4-3	RS	Radiated (enclosure)	10 V/m	3
IEC 61000-4-4	EFT	AC Power Port	±4.0KV	4
		DC Power Port	±4.0KV	4
		Signal Port	±2.0KV	3
IEC 61000-4-5	Surge	AC Power Port	Line-to Line±2.0KV	4
		AC Power Port	Line-to Earth±4.0KV	4
		DC Power Port	Line-to Line±1.0KV	3
		DC Power Port	Line-to Earth±2.0KV	3
		Signal Port	Line-to Earth±2.0KV	4
IEC 61000-4-6	CS	AC Power Port	10 V rms	3
		DC Power Port	10 V rms	3
		Signal Port	10 V rms	3

IEC 61000-4-8	PFMF	Enclosure	1 A/m	3
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock Drop (Freefall) /Vibration	IEC 60068-2-27 ISTA Test Procedure 2A /IEC 60068-2-64			
RoHS II	Yes			
MTBF	TBD			
Warranty	5 years			

## ORDERING INFORMATION

### Ordering information

Model name	Part Number	Description	Ethernet	Serial
SE5908-N-DC	1P1SE590800001G	8-Port Serial Device Server, RJ45, RS232/422/485 DC	2 (RJ45)	8 (RJ45)
SE5908-SiS-DC	1P1SE590800002G	8-Port Serial Device Server, RJ45, Isolated RS422/485 DC	2 (RJ45)	8 (RJ45)
SE5916-N-DC	1P1SE591600001G	16-Port Serial Device Server, RJ45, RS232/422/485 DC	2 (RJ45)	16 RJ45
SE5916-SiS-DC	1P1SE591600002G	16-Port Serial Device Server, RJ45, Isolated RS422/485 DC	2 (RJ45)	16 RJ45
SE5908-N-EU	1P1SE590800013G	8-Port Serial Device Server, RJ45, RS232/422/485 EU Plug	2 (RJ45)	8 (RJ45)
SE5908-N-US	1P1SE590800003G	8-Port Serial Device Server, RJ45, RS232/422/485 US Plug	2 (RJ45)	8 (RJ45)
SE5916-N-EU	1P1SE591600013G	16-Port Serial Device Server,RJ45,RS232/422/485 EU Plug	2 (RJ45)	16 RJ45
SE5916-N-US	1P1SE591600003G	16-Port Serial Device Server,RJ45,RS232/422/485 US Plug	2 (RJ45)	16 RJ45
SE5908-SiS-EU	1P1SE590800014G	8-Port Serial Device Server, RJ45, Isol. RS422/485 EU Plug	2 (RJ45)	8 (RJ45)
SE5908-SiS-US	1P1SE590800004G	8-Port Serial Device Server, RJ45, Isol. RS422/485 US Plug	2 (RJ45)	8 (RJ45)
SE5916-SiS-EU	1P1SE591600014G	16-Port Serial Device Server,RJ45,Isol. RS422/485 EU Plug	2 (RJ45)	16 RJ45
SE5916-SiS-US	1P1SE591600004G	16-Port Serial Device Server,RJ45,Isol. RS422/485 US Plug	2 (RJ45)	16 RJ45
SDK version	Contact HQ	SDK Programmable version, ask HQ for information	2 (RJ45)	8/16

### Optional Accessories

Model name	Part Number	Description
SDR-75-24	50500752240001G	75W/3.2A DIN-Rail 24VDC power supply with 88~264VAC / 124~370VDC input
AD17-24C (US-Y)	50500151240002G	Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, US plug
AD17-24D (EU-Y)	50500151240012G	Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, EU plug
GDC-120	59906861G	120mm copper woven grounding cable
CBL-RJ45(8P)-DB9(M)-90	50891781G	RJ45 to DB9 Male Cable, 90cm
CBL-RJ45(8P)-DB9(M)-200	50891951G	RJ45 to DB9 Male Cable, 200cm
CBL-RJ45(8P)-DB9(F)-90	50891791G	RJ45 to DB9 Female Cable, 90cm
CBL-RJ45(8P)-DB9(F)-90-C	50891971G	RJ45 to DB9 Female Cross Over Cable, 90cm
CBL-RJ45(8)-DB9(F)-200-C	50891961G	RJ45 to DB9 Female Cross Over Cable, 200cm
RMK-718-Black	70100000000040G	Rack Mount Mounting-Kit, Black
Power Cable (US)	50801041G	6 feet Power Cable, US
Power Cable (EU)	50801051G	6 feet Power Cable, EU
Fuse	50709441G	SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85°C