



**THE DATASHEET OF  
SE5002D-FS-TB**





## 2-Port Industrial Serial Device Server

■ ■ SE5002D

*RoHS-compliant*

- Industrial EMC protection
- Rugged metal case with wall or DIN-Rail mount
- 10/100Mbps Fast Ethernet over fiber optics
- TCP Server/Client, UDP, Virtual COM and Tunneling modes supported
- Remotely monitor, manage, and control industrial field devices
- Configuration via Web Browser / Serial Console / Telnet Console / Windows Utility
- Remote firmware upgrade

### **Make Serial Devices Ready to the Network**

The Industrial Serial Server SE5002D is a cost effective gateway for Ethernet (TCP/IP) and serial signal communications; allowing almost any serial device to be connected to a new or existing Ethernet network.

By encapsulating serial data and transporting it over Ethernet, SE5002D offers full-duplex and bi-directional data seamlessly between the serial port and the Ethernet network.

### **Easy to Use**

Flexible configuration options enable this unit to be setup over Ethernet by Telnet, Web Browser, Serial Console, or our Windows Utility. Packed in a rugged metal housing for wall or DIN-Rail mount with 9~48VDC wide range power input, SE5002D is ideal for almost any industrial and manufacturing automation process.

Atop Virtual COM software provides a virtual environment for applications when accessing SE5002D through TCP.

### **Specially Designed for Automation Fields**

In industrial and manufacturing automation fields, SE5002D 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, Electronic Kanbans, Shop Floor Control Systems, and Pick-to-Light Systems.

## Specification

### Network Interface

<b>Fiber Optics</b>	802.3 10BASE-F / 100BASE-FX with auto negotiation
<b>Connector</b>	IEC 61754-4 Standard Connector (SC)

### Serial Interface

<b>Connector</b>	D-Sub9 RS-232/422/485 software selectable 3.81mm TB5 RS-232/422/485 software selectable (TB models)
<b>Ports</b>	2 Port
<b>Baud Rate</b>	1200~230Kbps
<b>Data Bits</b>	7,8
<b>Stop Bits</b>	1,2
<b>Flow Control</b>	None, Xon/Xoff, RTS/CTS

### Power Characteristics

<b>Input Voltage</b>	9VDC-48VDC
<b>Input Current(9VDC)</b>	0.35A
<b>Power Consumption</b>	Approx. 3.15W (max)
<b>Reverse Polarity Protection</b>	Yes
<b>Connector</b>	5.08mm 3-pin Lockable Terminal Block

### Mechanicals

<b>Dimensions(W x H x D)</b>	47 mm x 110 mm x 90mm
<b>Installation</b>	DIN Rail, Wall Mount (optional)
<b>Reset Button</b>	Yes
<b>Weight</b>	400g

### Environmental Limits

<b>Operating Temperature</b>	0°C ~ 60°C ( 32° ~ 140°F )
<b>Storage Temperature</b>	-40° ~ 85°C ( -40°~ 185°F )
<b>Ambient Relative Humidity</b>	5~95% RH, (non-condensing)

### Software

<b>Protocols</b>	IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, HTTP, Telnet, RFC2217
<b>Configuration</b>	Serial Manager, Web UI, Telnet
<b>Virtual COM</b>	Windows / Linux redirection software

### Link Modes

<b>TCP Server</b>	4 connections, Virtual COM, or Reverse Telnet
<b>TCP Client</b>	Single destination or Virtual COM
<b>UDP</b>	Up to 4 ranges of IPs

### Warranty

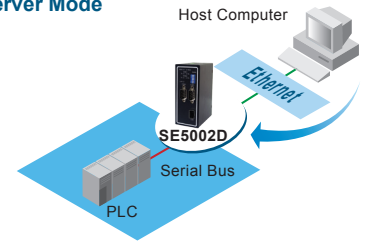
5 years

### Regulatory Requirements

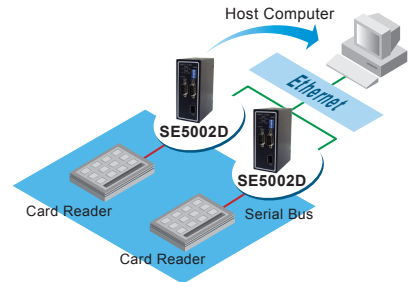
**EMC** EN 55022, EN 55024, FCC Part 15 Subpart B Class A

Test	Item	Value	Level
IEC 61000-4-2	ESD	Contact Discharge	±8KV
		Air Discharge	±15KV
	ESD (SFP Modules)	Contact Discharge	±6KV
		Air Discharge	±8KV
IEC 61000-4-3	RS	Radiated(Enclosure)	10(V/m)
IEC 61000-4-4	EFT	AC Power Port	±2.0 KV
		DC Power Port	±2.0 KV
		Signal Port	±1.0 KV
IEC 61000-4-5	Surge	AC Power Port	Line-to-Line±2.0 KV
		AC Power Port	Line-to-Earth±4.0 KV
		DC Power Port	Line-to-Line±0.5 KV
		DC Power Port	Line-to-Earth±1 KV
		Signal Port	Line-to-Earth±2.0 KV
IEC 61000-4-6	CS	Conducted(Enclosure)	10 V rms
IEC 61000-4-8	PFMF	(Enclosure)	10(A/m)
IEC 61000-4-11	DIP	AC Power Port	-
<b>Shock</b>	IEC 60068-2-27		
<b>Freefall</b>	IEC 60068-2-32		
<b>Vibration</b>	IEC 60068-2-6		
<b>Safety</b>	IEC/EN 60950-1		
<b>RoHS</b>	Yes		
<b>MTBF</b>	(TBD)		

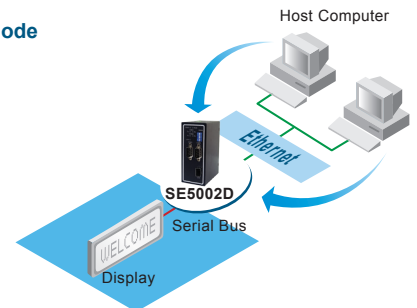
### TCP Server Mode



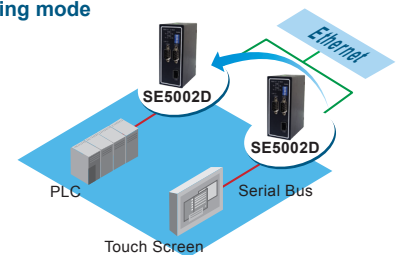
### TCP Client mode



### UDP mode



### Tunneling mode



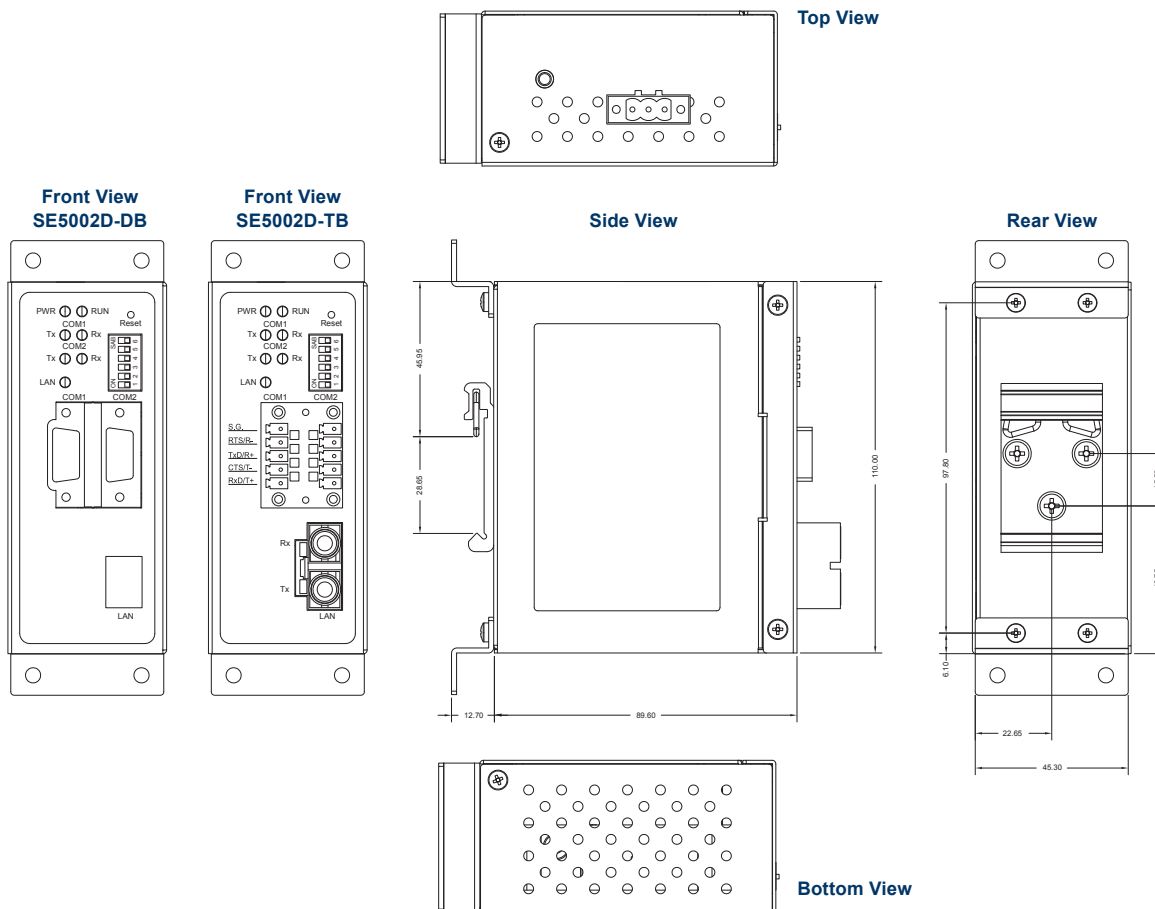
## Ordering Information

<b>SE5002D-Fm</b>	<b>P/N:1P1SE5002DFM01G</b>
2-port Industrial Serial Device Server, DB9, Multimode fiber optics	
<b>SE5002D-Fm-TB</b>	<b>P/N:1P1SE5002DFM02G</b>
2-port Industrial Serial Device Server, TB59, Multimode fiber optics	
<b>SE5002D-Fs</b>	<b>P/N:1P1SE5002DFS01G</b>
2-port Industrial Serial Device Server, DB9, Single mode fiber optics	
<b>SE5002D-Fs-TB</b>	<b>P/N:1P1SE5002DFS02G</b>
2-port Industrial Serial Device Server, TB5, Single fiber optics	
<b>SE5002D-SFP</b>	<b>P/N:1P1SE5002DSFP1G</b>
2-port Industrial Serial Device Server, DB9, SFP	
<b>SE5002D-SFP-TB</b>	<b>P/N:1P1SE5002DSFP2G</b>
2-port Industrial Serial Device Server, DB9, SFP	

## Optional Accessories

<b>US315-12 (US-Y) Power Adapter</b>	<b>P/N:50500151120009G</b>
Y-Type (5.08 mm) power adaptor,100-240VAC input, 1.25A @ 12VDC output, US plug	
<b>USE315-12 (EU-Y) Power Adapter</b>	<b>P/N:50500151120019G</b>
Y-Type (5.08 mm) power adaptor,100-240VAC input, 1.25A @ 12VDC output, EU plug	
<b>ADP-DB9(F)-TB5</b>	<b>P/N:59906231G</b>
Female DB9 to Female 3.81 TB5 Converter	
<b>WMK-454-Black</b>	<b>P/N:7010000000043G</b>
Black Aluminum Wall Mount Kit	
<b>LM38-A3S-TI-N</b>	<b>P/N:50708051G</b>
SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40°C ~ 85°C	
<b>LS38-A3S-TI-N</b>	<b>P/N:50708041G</b>
SFP Transceiver, 155Mbps, 1310nmFP, Single-mode, 30km, 3.3V, -40°C ~ 85°C	

## Mechanical



## Atop Technologies, Inc.

TEL : +886-3-5508137  
 FAX : +886-3-5508131  
 sales@atop.com.tw  
 http : //www.atop.com.tw

Design and specification are subjected to change without notice.

All product names referenced herein are registered trademarks of their respective companies.



DM\_SE5002D\_E : v1-120425

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