

FEATURE HIGHLIGHTS



- 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

PRODUCT DESCRIPTION

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.

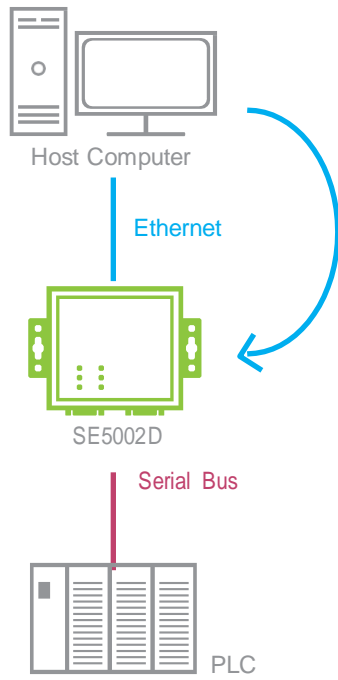
Atop Virtual COM software provides a virtual environment for applications when accessing SE5002D through TCP.

Specially Designed for Automation Fields

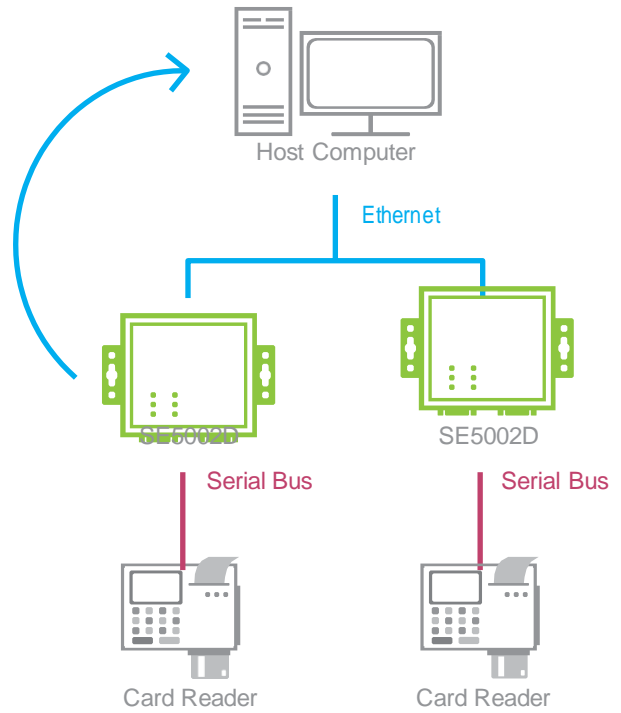
In industrial and manufacturing automation fields, SE5002D is used as a field device to connect the Ethernet through TCP/IP protocol directly. It is also specially designed for conjunction with PLCs, HMIs, Barcode Scanners, Data Terminals, Electronic Kanbans, Shop Floor Control Systems, and Pick-to-Light Systems.

APPLICATION EXAMPLES

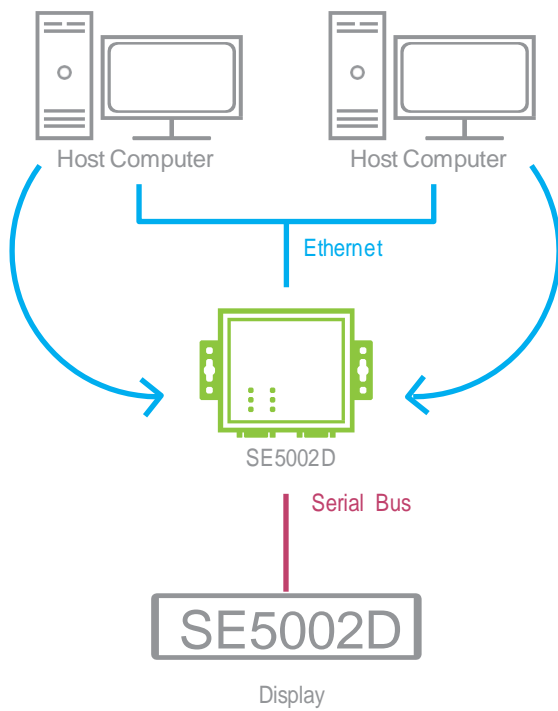
TCP Server Mode



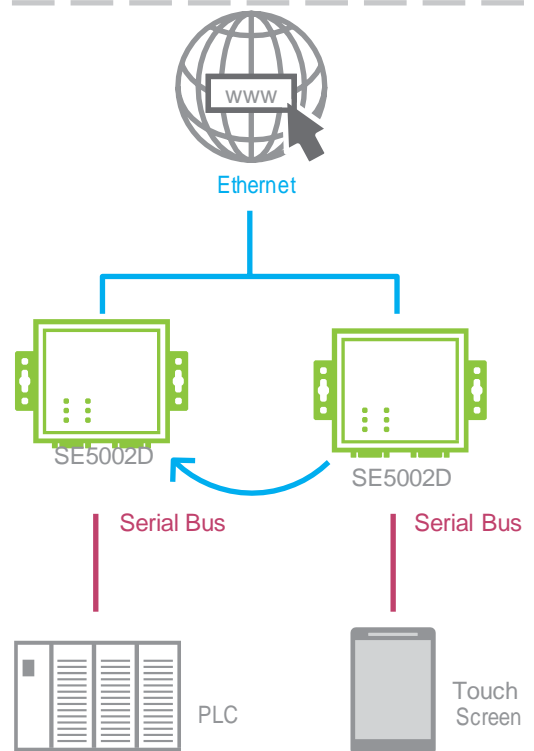
TCP Client Mode



UPD Mode



Tunneling Mode



SPECIFICATIONS

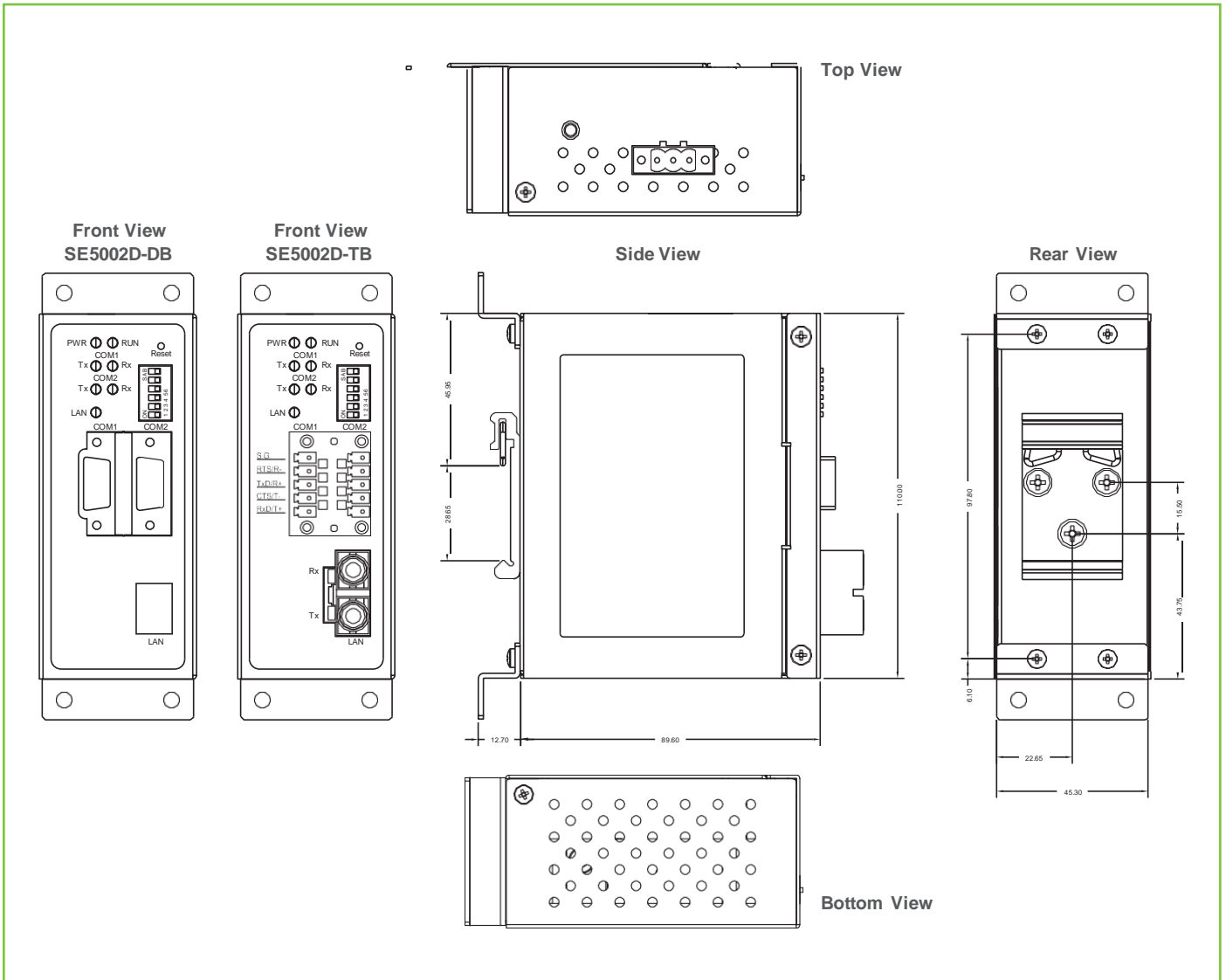
Network Interface		
Number of ports	1x (fiber optics, SFP or RJ45)	
Fiber Optics	802.3 10BASE-F / 100BASE-FX with auto negotiation	
Connector ports	1 x IEC61754-4 Standard Connector (SC) or 1 x SFP or 1 x RJ45	
Optical Fiber Specification		
Model name	SE5002D-FM	SE5002D-FS
Mode	Multi-mode	Single-mode
Distance	2(KM)	40(KM)
Bit Rate	155(Mbps)	155(Mbps)
Wavelength(nm)	1310(nm)	1310(nm)
Application	Fast Ethernet / OC3	S1.1 / Fast Ethernet
TX Power	(62.5/125 um): Min: -20, MAX:-14dBm, (50/125 um): Min: -23.5, Max: -14 dBm	MIN: -15, Max: -8 dBm
RX Sensitivity	-31dBm	-34dBm
Serial Interface		
Connector	D-Sub9 RS-232/422/485 software selectable 3.81mm TB5 RS-232/422/485 software selectable (TB models)	
Ports	2 Port	
Baud Rate	1200~230Kbps	
Data Bits	7, 8	
Stop Bits	1, 2	
Flow Control	None, Xon/Xoff, RTS/CTS	
Power Characteristics		
Input Voltage	9VDC-48VDC	
Input Current(9VDC)	0.45A	
Power Consumption	4.05Watts Max	
Reverse Polarity Protection	Yes	
Connector	5.08mm 3-pin Lockable Terminal Block	
Mechanicals		
Dimensions(W x H x D)	47 mm x 110 mm x 90mm	
Installation	DIN Rail, Wall Mount (optional)	
Reset Button	Yes	
Weight	400g	
Environmental Limits		
Operating Temperature	0°C ~ 60°C (32° ~ 140°F)	

Storage Temperature	-40° ~ 85°C (-40°~ 185°F)
Ambient Relative Humidity	5~95% RH, (non-condensing)
Software	
Protocols	IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, HTTP, Telnet, RFC2217
Configuration	Device Management Utility, Web UI, Telnet
Virtual COM	Windows / Linux redirection software
Link Modes	
TCP Server	4 connections, Virtual COM, or Reverse Telnet
TCP Client	Single destination or Virtual COM
UDP	Up to 4 ranges of IPs

REGULATORY APPROVALS

Regulatory Approvals			
EMC	EN 55022, EN 55024, FCC Part 15 Subpart B Class A		
Safety	IEC/EN 60950-1		
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	—
Shock	IEC 60068-2-27		
Freefall	IEC 60068-2-32		
Vibration	IEC 60068-2-6		
RoHS	Yes		
MTBF	33.45 years @25 degrees (use the circle) C, according to MIL-HDBK-217K		
Warranty	5 years		

DIMENSIONS & LAYOUT



ORDERING

Ordering Information

Model Name	Part Number	Description
SE5002D-Fm	1P1SE5002DFM01G	2-port Industrial Serial Device Server, DB9, Multimode fiber optics
SE5002D-Fm-TB	1P1SE5002DFM02G	2-port Industrial Serial Device Server, TB5, Multimode fiber optic
SE5002D-Fs	1P1SE5002DFS01G	2-port Industrial Serial Device Server, DB9, Single mode fiber optics
SE5002D-Fs-TB	1P1SE5002DFS02G	2-port Industrial Serial Device Server, TB5, Single mode fiber optics
SE5002D-SFP	1P1SE5002DSFP1G	2-port Industrial Serial Device Server, DB9, SFP
SE5002D-SFP-TB	1P1SE5002DSFP2G	2-port Industrial Serial Device Server, TB5, SFP
SE5002D	1P1SE5002D0003G	2-port Industrial Serial Device Server, DB9, RJ45
SE5002D-TB	1P1SE5002DTB01G	2-port Industrial Serial Device Server, TB5, RJ45

Optional Accessories

Model Name	Part Number	Description
UN315-1212 (US-Y)	50500151120003G	Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, US plug, LV6
UNE315-1212 (EU-Y)	50500151120013G	Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, EU plug, LV6
ADP-DB9(F)-TB5	59906231G	Female DB9 to Female 3.81 TB5 Converter
WMK-454-Black	70100000000043G	Black Aluminum Wall Mount Kit
LM38-A3S-TI-N	50708051G	SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40°C ~ 85°C
LS38-A3S-TI-N	50708041G	SFP Transceiver, 155Mbps, 1310nmFP, Single-mode, 30km, 3.3V, -40°C ~ 85°C

Industrial Communication Products Ltd

Tel: +44(0) 203 086 9569

Web: www.industrialcomms.com

Email: sales@industrialcomms.com