



## 1-Port Industrial Serial Device Server

■ ■ SE5001A

*RoHS-compliant*

- Industrial EMC protection
- Rugged metal case with wall or DIN-Rail mount
- 10/100Mbps Fast Ethernet full duplex auto negotiation
- 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 SE5001A 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, SE5001A 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, SE5001A is ideal for almost any industrial and manufacturing automation process.

Atop Virtual COM software provides a virtual environment for applications when accessing SE5001A through TCP.

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

In industrial and manufacturing automation fields, SE5001A 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.

# 1-Port Industrial Serial Device Server

SE5001A

| Specifications                 |  |                      |                      |   |
|--------------------------------|--|----------------------|----------------------|---|
| <b>Network Interface</b>       |  |                      |                      |   |
| Ethernet                       | 1x RJ-45 IEEE802.3 10/100Mbps, Auto MDI/MDI-X  |                      |                      |   |
| <b>Serial Interface</b>        |  |                      |                      |   |
| Connector                      | D-Sub9 RS-232/422/485 software selectable<br>3.81mm TB5 RS-232/422/485 software selectable (TB models) |                      |                      |   |
| Ports                          | 1-port   |                      |                      |   |
| Baud Rate                      | 1200~230Kbps   |                      |                      |   |
| Data Bits                      | 7,8  |                      |                      |   |
| Stop Bits                      | 1,2  |                      |                      |   |
| Flow Control                   | None, Xon/Xoff, RTS/CTS  |                      |                      |   |
| <b>Power Characteristics</b>   |  |                      |                      |   |
| Input Voltage                  | 9VDC - 48VDC   |                      |                      |   |
| Input Current(9VDC)            | 0.30A  |                      |                      |   |
| Power Consumption              | Approx. 2.70W (max)  |                      |                      |   |
| Reverse Polarity Protection    | Yes  |                      |                      |   |
| Connector                      | 5.08mm 3-pin Lockable Terminal Block   |                      |                      |   |
| <b>Mechanicals</b>             |  |                      |                      |   |
| Dimensions(W x H x D)          | 75mm x 85mm x 28mm   |                      |                      |   |
| Installation                   | Wall mount, DIN-Rail (optional)  |                      |                      |   |
| Reset Button                   | Yes  |                      |                      |   |
| Weight                         | 200g   |                      |                      |   |
| <b>Environmental Limits</b>    |  |                      |                      |   |
| 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)   |                      |                      |   |
| <b>Software</b>                |  |                      |                      |   |
| Protocols                      | IPv4, ICMP, TCP, UDP, DHCP Client, SNMP, HTTP, Telnet, RFC2217   |                      |                      |   |
| Configuration                  | Serial Manager, Web UI, Telnet   |                      |                      |   |
| Virtual COM                    | Windows / Linux redirection software   |                      |                      |   |
| <b>Link Modes</b>              |  |                      |                      |   |
| TCP Server                     | 4 connections, Virtual COM, or Reverse Telnet  |                      |                      |   |
| TCP Client                     | Single destination or Virtual COM  |                      |                      |   |
| UDP                            | Up to 4 ranges of IPs  |                      |                      |   |
| <b>Regulatory Requirements</b> |  |                      |                      |   |
| EMC                            | EN 55022: 2007, EN 55024: 2010, FCC Part 15 Subpart B Class A  |                      |                      |   |
| Safety                         | EN 60950-1: 2011 / IEC 60950-1:2009  |                      |                      |   |
| 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        | ±2.0 KV              | 3 |
|                                |  | DC Power Port        | ±2.0 KV              | 3 |
| IEC 61000-4-5                  | Surge  | Signal Port          | ±2.0 KV              | 4 |
|                                |  | AC Power Port        | Line-to-Line±2.0 KV  | 4 |
|                                |  | AC Power Port        | Line-to-Earth±4.0 KV | 4 |
|                                |  | DC Power Port        | Line-to-Line±0.5 KV  | 2 |
|                                |  | DC Power Port        | Line-to-Earth±1 KV   | 2 |
|                                |  | Signal Port          | Line-to-Earth±2.0 KV | 3 |
| IEC 61000-4-6                  | CS   | Conducted(Enclosure) | 10 V rms             | 3 |
| IEC 61000-4-8                  | PFMF   | (Enclosure)          | 10(A/m)              | 3 |
| IEC 61000-4-11                 | DIP  | AC Power Port        | -                    | - |

※ AC Power Port means tested through the adapter in the accessories

|           |                |
|-----------|----------------|
| Shock     | IEC 60068-2-27 |
| Freefall  | IEC 60068-2-32 |
| Vibration | IEC 60068-2-6  |
| RoHS      | Yes            |
| MTBF      | (TBD)          |
| Warranty  | 5 years        |

## Ordering Information

SE5001A S.S. 1P1SE5001A0001G

1-port Industrial Serial Device Server, D-Sub

SE5001A-TB S.S. 1P1SE5001A0002G

1-port Industrial Serial Device Server, Terminal Block

## Optional Accessories

US315-12(US-Y) 50500151120009G

Y-Type (BT1-10V) power adaptor, 100-240VAC input, 1.25A @ 12VDC output, US plug

USE315-12(EU-Y) 50500151120019G

Y-Type (BT1-10V) power adaptor, 100-240VAC input, 1.25A @ 12VDC output, EU plug

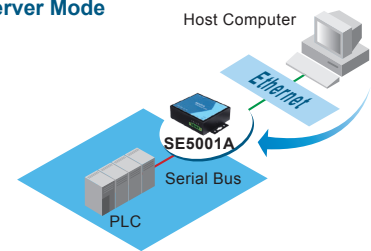
ADP-DB9(F)-TB5 59906231G

Female DB9 to Female 3.81mm TB5 Converter

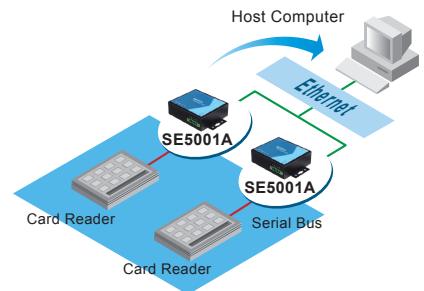
DK-25 30200000000022G

Plastic DIN-Rail Kit

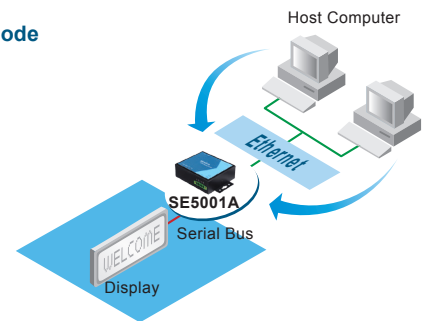
## TCP Server Mode



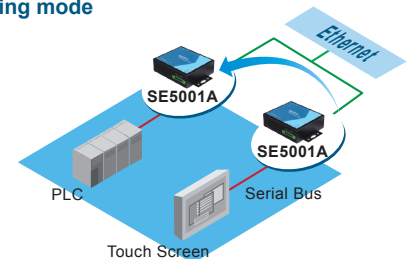
## TCP Client mode



## UDP mode



## Tunneling mode



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CA\_SE5001A\_E : v1-120220