



# IED-2000

## 2-Port RS-232/422/485 Industrial Serial Device Server, 2-TX

### Overview

The IED-2000 is an Industrial Ethernet to serial converter, also called the Ethernet Terminal Server or the Serial Device Server for industrial use in harsh environments. The serial interface is selectable between RS-232 / RS-422 / RS-485 and the Ethernet interface supports TCP, UDP, ICMP, IGMP, HTTP, ARP networking protocols. This device is designed for easy installation; setting up is a breeze with included Windows based driver software that gives the local COM port, retaining existing software applications to be connected just as if they were attached locally. It can also be set up remotely over the local network or internet using Telnet, SNMP or web browser.

### Management

Supports a variety of management features including: CLI via Telnet; Graphic User Interface via Web Browser or Simple Network Management Protocol via SNMP tools. It provides better visibility and management of those critical assets. Also, the Windows based driver software provides the local COM port, allowing the application to control the serial device across the local network as it is attached locally.

### Resilience

Built-in redundant power system is designed to meet the challenge of power failure to ensure reliability and constant availability. Single power design works fine in non-critical network applications, but it falls short drastically for network applications in transportation, automate production or banking.

### Safety

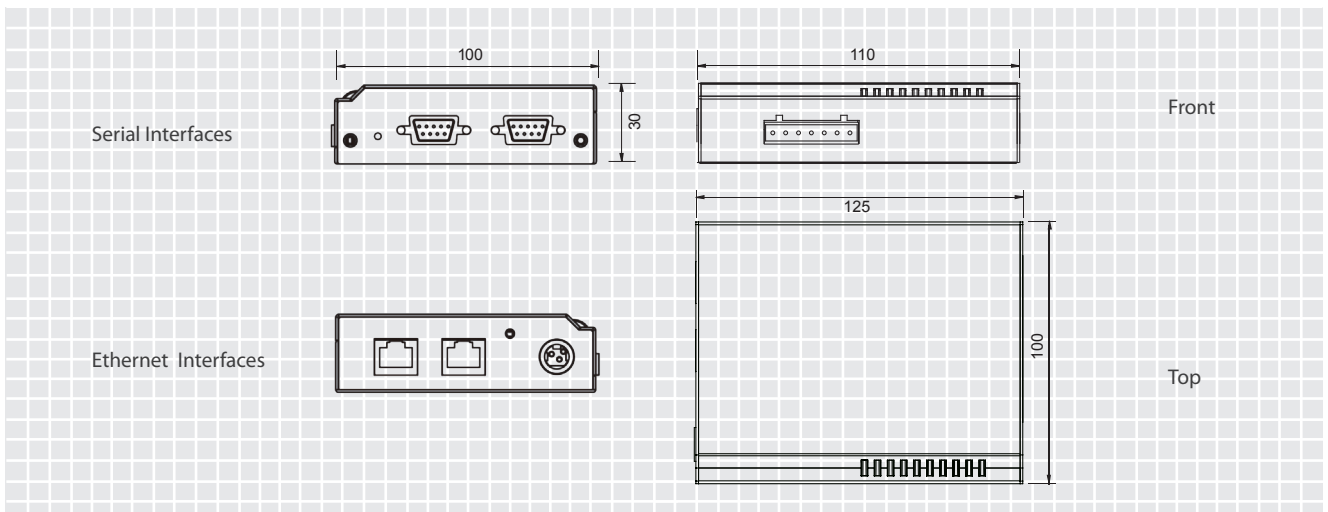
The Serial Device Server is FCC and CE approved with 15KV ESD surge protection, and meets RoHS hazardous materials standards. The Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2002/95/EC which commonly referred to as the Restriction of Hazardous Substances Directive or RoHS.

### Features

- Supports 2-port RS-232/422/485 serial communication
- Supports 2-port 10/100Mbps Ethernet connector
- 15KV ESD surge protection
- 64KB port memory buffer prevents data loss when connection failed
- Virtual COM, TCP Server, TCP Client, UDP and Pair Connection
- Web, Telnet, SNMP and Windows based utility management
- Terminal Block and latch secure DC Jack power inputs
- DIN-rail mounting with aluminium housing
- -10 to 60 Celsius operating temperature

### Diagrams

Unit: mm



## Specifications

Technology	
Serial Port	<ul style="list-style-type: none"> <li>Interface: RS-232/422/485</li> <li>Connector: DB9 for 2-port RS-232/422/485 (Male)</li> <li>Line Protection: 15KV ESD</li> </ul>
Serial Communication Parameters	<ul style="list-style-type: none"> <li>Parity: None, Even, Odd, Space, Mar</li> <li>Data Bits: 5, 6, 7, 8</li> <li>Stop Bit: 1, 1.5, 2</li> <li>Flow Control: None, RTS/CTS, Xon/Xoff</li> <li>Speed: 50 bps to 460.8Kbps</li> </ul>
Protocols	<ul style="list-style-type: none"> <li>ICMP, IP, TCP, UDP, DHCP client, Telnet, DNS, SNMPv2,</li> <li>HTTP, SMTP, SNMP, ARP, RARP, RFC2217</li> </ul>
Operation mode	<ul style="list-style-type: none"> <li>Virtual COM, TCP server, TCP client, UDP, Pair Connection</li> </ul>
OS Driver Support	<ul style="list-style-type: none"> <li>Windows 2000/XP/2003 COM driver</li> </ul>
Management	<ul style="list-style-type: none"> <li>Web, Telnet console, SNMP</li> </ul>
Memory Buffer	<ul style="list-style-type: none"> <li>512K bits</li> </ul>

Power	
Input	<ul style="list-style-type: none"> <li>Input Voltage: 12 to 32VDC (Terminal Block); 12VDC (DC Jack)</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>4.32W Max. 0.36A @ 12VDC, 0.18A @ 24VDC</li> </ul>
Connector	<ul style="list-style-type: none"> <li>Terminal Block and DC Jack with latch</li> </ul>

Mechanical	
Casing	<ul style="list-style-type: none"> <li>Aluminum case</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>100mm (W) x 125mm (D) x 30mm(H) (3.94" (W) x 4.92" (D) x 1.18" (H))</li> </ul>
Weight	<ul style="list-style-type: none"> <li>0.3kg (0.66 lb)</li> </ul>
Installation	<ul style="list-style-type: none"> <li>DIN-Rail (Top hat type 35mm), Panel Mounting</li> </ul>

Interface	
Ethernet Port	<ul style="list-style-type: none"> <li>Interface: 10/100BASE-TX; 100BASE-FX</li> <li>Connector: RJ45 (10/100BASE-TX)</li> <li>Isolation: Built-in 1.5KV magnetic isolation</li> </ul>
Serial Port	<ul style="list-style-type: none"> <li>DB9- RS232/422/485: 2 port</li> </ul>
LED Indicators	<ul style="list-style-type: none"> <li>Per Unit: Power Status (Power 1, Power 2), Status</li> <li>Per Port: Ethernet: LAN1,LAN2 Serial: Port1 TX, Port1 RX, Port2 TX, Port2 RX Port1 TX/RX, Port2 TX/RX, Port3 TX/RX, Port4 TX/RX for RJ50 Interface Version</li> </ul>

Environment	
Operating Temperature	<ul style="list-style-type: none"> <li>-10°C to 60°C (14°F to 140°F)</li> <li>Test @ -20°C to 65°C (-4°F to 149°F)</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>-20°C to 85°C (-4°F to 185°F)</li> </ul>
Ambient Relative Humidity	<ul style="list-style-type: none"> <li>5% to 95% non-condensing</li> </ul>
MTBF	<ul style="list-style-type: none"> <li>31.82 years</li> </ul>

Regulatory Approvals	
Emission Compliance	<ul style="list-style-type: none"> <li>CE Mark Class A</li> <li>FCC Part 15 Class A</li> <li>VCCI Class A</li> </ul>

## Order Information

**IED-2000** – 2-Port RS-232/422/485 Industrial Serial Device Server, 2-TX

## Package Contents

IED-2000  
Quick Installation Guide  
CD User Manual / Utility