

1-Pot Serial to Ethernet Adapter, IP Serial Device Server For Remote RS232 Devices, Wall/DIN Rail Mountable, Metal Housing, RJ45 LAN to DB9 Serial Converter

Product ID: I23-SERIAL-ETHERNET



This serial-to-IP converter is an efficient solution for remotely connecting and controlling a variety of RS232 serial devices over an IP-based network.

The serial over LAN adapter is highly customizable to support various applications. It can be used to remotely control an RS232 device directly. Alternatively, two serial over LAN adapters can be connected to each other on the same network and create a full end-to-end RS232 serial connection. The Windows-based companion software, Device Server Manager (DSM), enables the creation of virtual COM ports, allowing seamless migration of existing serial applications to the new virtual COM ports. The DSM provides a unified management experience, allowing multiple serial-to-Ethernet converters to be managed simultaneously. The converter also features a versatile web-based interface for remote management, making it compatible in mixed OS environments.

The converter is housed in a full metal enclosure for durability in harsh environments. The DB9 over IP converter includes all necessary wall and DIN rail mounting hardware. Multiple mounting holes along the chassis allow it to be installed in the most useful orientation for any application. The compact design of 1.8x1x3.2in (46.1x 25x 81.9mm) is ideal for environments where space is at a premium.

The TAA-compliant IP-to-serial converter features a single RJ45 10/100 Mbps Ethernet port and supports Telnet Server (RFC2217), TCP Server, TCP Client, and UDP protocols for versatile network connectivity. It also includes a universal power adapter, supports ESD level 4 surge protection, and can supply 5VDC over pin 9 if required.

Certifications, Reports and Compatibility



Applications

Features

- **SINGLE PORT SERIAL TO IP CONVERTER:** Connect different RS232 serial devices remotely over an IP-based network; Use for POS systems, barcode readers, sensors, weighing systems, CNC controllers & PLCs; DB9 serial port supports up to 921.6Kbps; TAA-compliant
- **ETHERNET AND POWER OPTIONS:** Single RJ45 10/100 Mbps Ethernet port; Serial device server operates over Telnet (RFC2217), UDP, or TCP client/server; Serial to LAN converter includes a universal power adapter & supports 5VDC over pin 9 for serial devices
- **VIRTUAL COM AND WEBUI:** Windows-based DSM (Device Server Manager) software enables virtual COM port management for one or more serial device servers; Fully configurable through a WebUI with universal OS compatibility
- **MOUNTING OPTIONS:** Includes all the necessary hardware for wall and DIN rail mounting; Multiple mounting holes on the RS232 over IP adapter allow installation in the optimal orientation for any application
- **RUGGED ENCLOSURE:** All-metal housing ensures durability in harsh conditions; Dimensions 1.8x1x3.2in (46.1x 25x 81.9mm); Supports up to 15KV (ESD Level 4) surge protection on the serial port

Hardware

| | |
|--------------------|--|
| Warranty | 2 Years |
| Ports | 1 |
| Interface | Serial |
| Industry Standards | IEEE 802.3u (100BASE-TX) , IEEE 802.3i (10BASE-TX) , EIA/TIA-232 |

Performance

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|---------------------------|---|
| Serial Protocol | RS-232 |
| Max Baud Rate | 921.6 Kbps |
| Data Bits | 7, 8 |
| Flow Control | RTS/CTS , X-ON/X-OFF, None |
| Parity | None, Even, Odd, Mark, Space |
| Stop Bits | 1, 2 |
| Remote Management Ability | Yes |
| Surge Protection | ESD (Electrostatic Discharge) Level 4 Protection: |

| | |
|---------------------|---|
| | 15kV IEC1000-4-2 Air |
| | 8kV IEC1000-4-2 Contact |
| Compatible Networks | 10/100 Mbps |
| Auto MDIX | Yes |
| Full Duplex Support | Yes |
| Supported Protocols | IP, Telnet RFC2217, TCP Server, TCP Client, and UDP |

Connector(s)

| | |
|-------------------|---|
| Connector Type(s) | 1 - DB-9 (9 pin, D-Sub) 1 - RJ-45 1 - Terminal Block (2 Wire) |
| Connector A | 1 - RJ-45 |
| Connector B | 1 - DB 9-pin Serial |

Software

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|------------------|---|
| OS Compatibility | Virtual COM software supports Windows only. Compatible with Windows XP, Vista, 7, 8, 8.1, 10, 11 |
|------------------|---|

Special Notes / Requirements

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|------|---|
| Note | Note: The device server's hardware is compatible with macOS and Linux; however, the provided Virtual COM software is not compatible with these operating systems. When used with macOS and Linux, the device server can only be configured using the WebUI. |
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Indicators

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|----------------|---|
| LED Indicators | 1 - RJ-45 Right LED Steady green: Ethernet connection Blinking green: Activity Off: Ethernet is not connected 2 - DB-9 Top LEDBlinking green: Activity Around DB-9 port Top LED: Transmit data activity Bottom LED: Receive data activity Off: No activity 4 - DB-9 Left LEDBlinking green: Receive data activity Off: No activity Right LEDBlinking green: Transmit data activity Off: No activity |
|----------------|---|

1 - Power LED
Steady green: Power is on
Off: Power is off
Blinking green: Restoring to factory settings

Power

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|------------------------------|---------------------|
| Power Source | AC Adapter Included |
| Input Voltage | 100 - 240 AC |
| Input Current | 0.48A |
| Output Voltage | 5V DC 5V DC |
| Output Current | 3A |
| Center Tip Polarity | Positive |
| Plug Type | M |
| Power Consumption (In Watts) | 15W |

Environmental

| | |
|-----------------------|---------------------------|
| Operating Temperature | 0C to 60C (32F to 140F) |
| Storage Temperature | -20C to 75C (-4F to 167F) |
| Humidity | 5~95% RH (Non-condensing) |

Physical Characteristics

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|-------------------|-------------------|
| Color | Black |
| Material | Steel |
| Product Length | 2.4 in [6.0 cm] |
| Product Width | 7.0 in [17.9 cm] |
| Product Height | 0.9 in [2.3 cm] |
| Weight of Product | 11.1 oz [315.0 g] |

Packaging Information

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|----------------|------------------|
| Package Length | 9.5 in [24.2 cm] |
|----------------|------------------|

| | |
|---------------------------|------------------|
| Package Width | 6.5 in [16.6 cm] |
| Package Height | 2.2 in [5.5 cm] |
| Shipping (Package) Weight | 1.4 lb [0.6 kg] |

What's in the Box

| | |
|---------------------|---|
| Included in Package | 1 - 2-Port Serial Over IP Device Server |
| | 1 - Din Rail Kit |
| | 2 - Din Rail Screws |
| | 1 - Universal Power Adapter |
| | 1 - Quick-Start Guide |

****Product appearance and specifications are subject to change without notice.***