

## 2-Port Serial-to-IP Ethernet Device Server - RS232

NETRS2322P



\*actual product may vary from photos

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For the latest information, technical specifications, and support for this product, please visit [www.startech.com/NETRS2322P](http://www.startech.com/NETRS2322P)

## FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

## Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (B)/NMB-3(B)

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# Introduction

## Packaging contents

- 1x 2-port serial device server
- 1x terminal block (2-wire)
- 1x universal power adapter (NA/EU/UK/AU)
- 1x software CD
- 1x quick start guide

## System requirements

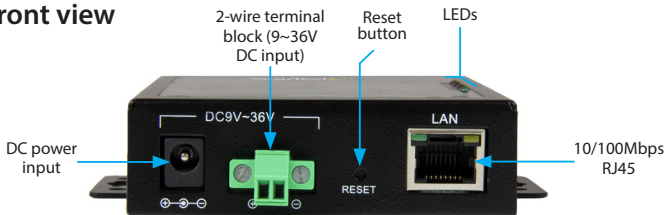
- 10/100Mbps network equipment (for example, a switch or a router)
- UTP Cat5e or higher Ethernet cable, terminated with RJ45 connectors
- RS232 serial cables
- Available AC electrical outlet
- Terminal block power input (optional, for redundant power)
- Any of the following operating systems (for provided Virtual COM software – Windows® only):
  - Windows 10 (32-bit or 64-bit)
  - Windows 8 / 8.1 (32-bit or 64-bit)
  - Windows 7 (32-bit or 64-bit)
  - Windows Vista (32-bit or 64-bit)
  - Windows Server® 2012, 2008 R2

**Note:** The device server's hardware is compatible with Mac OS and Linux®; however, the provided Virtual COM software is not compatible with these operating systems. When used with a Mac or Linux operating system, the device server can only be configured using the web GUI.

Operating system requirements are subject to change. For the latest requirements, please visit [www.startech.com/NETRS2322P](http://www.startech.com/NETRS2322P).

# Product diagram

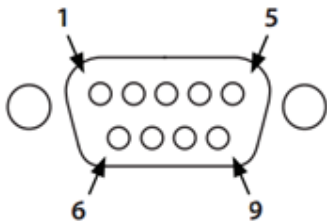
## Front view



## Rear view



## DB9 RS232 connector pinout



<b>Pin 1</b>	NC
<b>Pin 2</b>	RXD
<b>Pin 3</b>	TXD
<b>Pin 4</b>	DTR
<b>Pin 5</b>	GND
<b>Pin 6</b>	DSR
<b>Pin 7</b>	RTS
<b>Pin 8</b>	CTS
<b>Pin 9</b>	NC

# Install the device server

The device server features can be powered using the provided power adapter, using terminal block power input (9~36V DC), or you can use redundant power input by connecting both the power adapter and terminal block power.

If one of your power sources fails, the device server will switch to the secondary power source.

## Install the device server using the power adapter

1. Turn off any equipment that will be connected to the device server.
2. Connect up to two RS232 serial devices to the device server's **DB9 RS232** ports, using straight-through serial cable (not provided).
3. Connect your network equipment to the device server's **RJ45** port, using RJ45 Cat5e (or higher) Ethernet cable (not provided).
4. Select the appropriate power clip for your region and connect it to the power adapter.
5. Connect the power adapter to an AC electrical outlet and then to the device server's **DC power input** port. The **Status** LED (power) will light up solid (green), and you will hear a single “beep” sound.
6. Turn any equipment from step #1 back on (networking and serial devices).

## Install the device server using the terminal block

1. Repeat steps 1 through 3 from the **Install using the power adapter** section.
2. If already inserted, remove the terminal block connector from the device server. The two screws located on the left and right side of the terminal block connector may need to be loosened using a small, flat-head screwdriver.
3. Loosen the two screws on the top of the terminal block connector using a small, flat-head screwdriver.
4. Connect the positive and negative wires from your DC power source to the proper terminal block connectors and tighten the screws. The terminals are marked on the device server's casing.

**Note:** Ensure that the polarity of the input power — positive (+) and negative (-) — is correctly matched with the terminal block pins to ensure proper function.

5. Reinsert the terminal block into the device server and tighten the screws that were loosened in step #2 above. The **Status** LED (power) will light up solid (green), and you will hear a single “beep” sound.

# Configure the device server

You can configure the device server by using the EMT Connection Wizard software or by using a Web browser to access the GUI (Graphical User Interface).

## Configure using the EMT Connection Wizard (Windows only)

1. To download the latest software, use a Web browser and navigate to <http://www.startech.com/NETRS2322P>.
2. Click the **Support** tab.
3. Download the software.
4. When the download is complete, extract the contents of the compressed file(s) that you downloaded.

**Note:** Alternatively, you may use the provided software CD to install the software. However, it is highly recommended that you download the latest software from the StarTech.com website.

5. Double-click the appropriate software .exe file for the version of Windows that you're running. For 64-bit operating systems, run the file in the **x64 folder**. For 32-bit operating systems, run the file in the **x86 folder**.
6. Follow the on-screen instructions to complete the installation.

**Note:** You may be asked to restart your computer to complete the installation.

7. Once installed, launch the EMT Connection Wizard by selecting the icon on your Windows desktop or Start menu.
8. Follow the on-screen instructions to configure the device server and your connected serial device(s).

## Configure using the Web GUI (Windows, Mac, and Linux)

1. Use a Web browser, and type the following in the address bar:  
<http://192.168.1.40>

**Note:** You must be on the same subnet (192.168.1.xxx) in order to use the address referenced in step #1. If you are having problems connecting to the device, check your network infrastructure to ensure the device server is on the same subnet.

2. Leave the password field blank, and then click **Login**.
3. Set up and customize the device server's settings as needed.

### Web GUI Defaults:

**Default IP:** 192.168.1.40

**Password:**

# Surface or wall mounting

- Use the device server's integrated mounting holes and screws (not provided) to fasten and secure the device server to a wall or surface.



# Technical support

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For the latest drivers/software, please visit [www.startech.com/downloads](http://www.startech.com/downloads)

## Warranty information

This product is backed by a two-year warranty.

StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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