StarTech com RS232 1-Port Serial Over IP Device Server User **Manual**

Home » StarTech com » StarTech com RS232 1-Port Serial Over IP Device Server User Manual

StarTech com RS232 1-Port Serial Over IP Device Server



Contents

- 1 Compliance Statements
- **2 Safety Statements**
- 3 Product Diagram
- **4 Hardware Installation**
- 5 Install the Serial Device Server
- **6 Software Installation**
- 7 Operation
- 8 Use the Software to Discover the Serial Device Server
- 9 Configure the Serial Port Settings
- 10 Changing COM Port or Baud Rate in Windows
- 11 LED Chart
- **12 Warranty Information**
- 13 Limitation of Liability
- 14 Hard-to-find made easy. At StarTech.com, that isn't a slogan. It's a promise.
- **15 CUSTOMER SUPPORT**
- 16 Documents / Resources
 - 16.1 References

Compliance Statements

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 noguarantee 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

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)

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)

Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols

This manual may make reference to trademarks, registered trademarks, and other protected names and/or

symbols of third-party companies not related in any way to StarTech.com. Where they occur these references are for illustrative purposes only and do not represent an endorsement of a product or service by StarTech.com, or an endorsement of the product(s) to which this manual applies by the third-party company in question. Regardless of any direct acknowledgement elsewhere in the body of this document, StarTech.com hereby acknowledges that all trademarks, registered trademarks, service marks, and other protected names and/or symbols contained in this manual and related documents are the property of their respective holders. PHILLIPS® is a registered trademark of Phillips Screw Company in the United States or other countries.

Safety Statements

Safety Measures

- Wiring terminations should not be made with the product and/or electric lines under power.
- Cables (including power and charging cables) should be placed and routed to avoid creating electric, tripping or safety hazards.

Product Diagram

Front View



Component		Function
1	Status LED	Refer to LED Chart
2	DB-9 Serial Port	Connect an RS-232 Serial Device
3	Serial Communication LED Indicators	Refer to LED Chart
4	Mounting Bracket Holes	 Install the DIN Rail Kit or Wall Mounting Bracket usin g the included Mounting Bracket Screws Two on each side and four on the bottom of the Serial Device Server

• Rear View



Component		Function
1	DC Power Input	 13-SERIAL-ETHERNET: Connect the included Power Adapter I13P-SERIAL-ETHERNET: (Optional) Connect a Power Adapter (sol d separately) if PoE Power is unavailable
2	Ethernet Port	 Connect an Ethernet Cable to the Serial Device Server Supports 10/100Mbps Link/Activity LEDs: Refer to LED Chart I13P-SERIAL-ETHERNET: Supports 802.3af to power the Serial Device Server

Hardware Installation

Hardware Installation

(Optional) Configure DB-9 Pin 9 Power

By default, the Serial Device Server is configured with the Ring Indicator (RI) on Pin 9, but it can be changed to 5V DC. To change the DB9 Connector Pin 9 to 5V DC output, please follow these steps:

WARNING! Static Electricity can severely damage electronics. Ensure that you are adequately Grounded before you open the device housing or touch the change the jumper. You should wear an Anti-Static Strap or use an Anti-Static Mat when opening the housing or changing the jumper. If an Anti-Static Strap isn't available, discharge any built-up static electricity by touching a large Grounded Metal Surface for several seconds.

- 1. Ensure the Power Adapter and all Peripheral Cables are disconnected from the Serial Device Server.
- 2. Using a **Phillips Screwdriver**, remove the **Screws** from the **Housing**.

Note: Save these to re-assemble the housing after changing the jumper.

- 3. Using both hands, carefully open the **Housing** to expose the **Circuit Board** inside.
- 4. Identify Jumper #4 (JP4), located inside the Housing next to the DB9 Connector.
- 5. Using a pair of fine-point tweezers or a small flat-head screwdriver, carefully move the jumper to the **5V** position.
- 6. Re-assemble the Housing, ensuring the **Housing Screw Holes** align.
- 7. Replace the Housing Screws removed in **Step 3**.

(Optional) Mounting The Serial Device Server

- Determine the mounting method that best suits the installation environment (DIN Rail or Wall Mount).
- 2. Align the bracket with the Bracket Mounting Holes on the bottom or sides of the Serial Device Server.
- 3. Using the included **Mounting Bracket Screws**, secure the **DIN Rail** or **Mounting Bracket** to the **Serial Device Server**.
- 4. Mount the Serial Device Server as follows:
 - DIN Rail: Insert the DIN Rail Mounting Plate at an angle starting from the Top, then Push it against the DIN Rail.

 Wall Mount: Secure the Mounting Bracket to the Mounting Surface using the appropriate Mounting Hardware (i.e., wood screws).

Install the Serial Device Server

 Connect the included **Power Supply** to the **Serial Device Server.** This is only required for the I13-SERIAL-ETHERNET.

Note: The Serial Device Server can take up to 80 seconds to startup.

 Connect an Ethernet cable from the RJ-45 Port of the Serial Device Server to a Network Router ,Switch, or Hub.

Note: The I13P-SERIAL-ETHERNET must be connected to a Power Sourcing Equipment (PSE) to receive Power over Ethernet (PoE). If PoE power is not available, a 5V, 3A+, Type M power adapter (sold separately) must be used to ensure proper operation.

3. Connect an RS-232 Serial Device to the DB-9 Port on the Serial Device Server.

Software Installation

1. Navigate to:

www.StarTech.com/I13-SERIAL-ETHERNET

or

www.StarTech.com/I13P-SERIAL-ETHERNET

- 2. Click the Drivers/Downloads tab.
- 3. Under Driver(s), download the Software Package for Windows Operating System.
- 4. Extract the contents of the downloaded .zip file.
- 5. Run the extracted executable file to start the software installation.
- 6. Follow the on screen prompts to complete the installation.

Operation

Note: The devices support features which secure and protect the devices and its configuration using standard/best practices but as these are intended to be used in controlled environments using proprietary software (virtual COM port) and open communication standards (Telnet, RFC2217) which do not encrypt the data they should not be exposed to an unsecure connection.

Telnet

Using Telnet to send or receive data works with any operating system or host device that supports the Telnet protocol. The software for the connected serial peripheral device may require a COM Port or mapped hardware address. To configure this, the StarTech.com Device Server Manager is required, which is only supported on Windows operating systems.

To communicate with the connected Serial Peripheral Device via Telnet, perform the following:

- 1. Open a terminal, command prompt, or third-party software that connects to a Telnet server.
- 2. Type the IP address of the Serial Device Server.

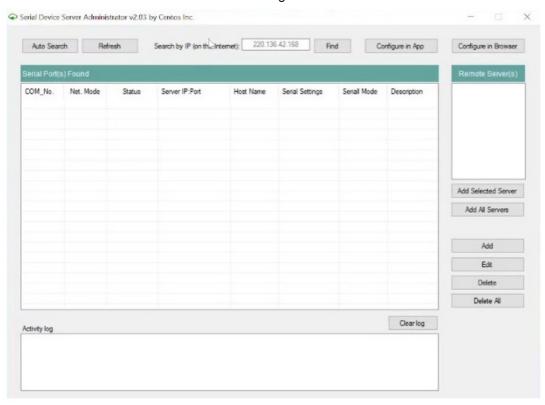
Note: This can be found using the StarTech.com Device Server Manager for Windows, or by viewing the

connected devices on the local network router. Connect to the Serial Device Server.

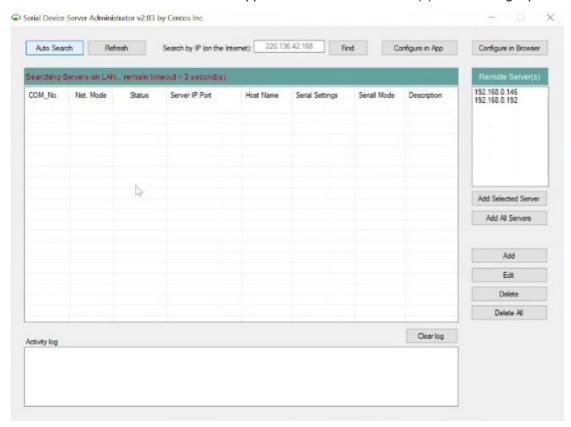
3. Type in the terminal, command prompt, or third-party software to send commands/data to the Serial Peripheral Device.

Use the Software to Discover the Serial Device Server

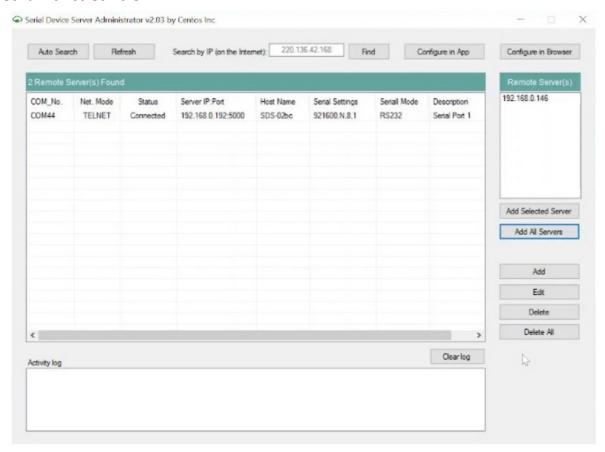
1. Launch the StarTech.com Device Server Manager



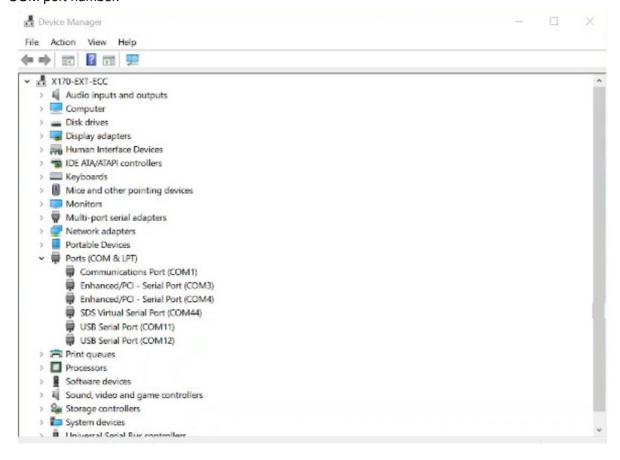
- 2. Click **Auto Search** to initiate the process of discovering **Serial Device Servers** on the local network.
- 3. Discovered Serial Device Servers will appear in the "Remote Server(s)" list in the right pane.



4. Select "Add Selected Server" to add a specific **Serial Device Server** or "Add All Servers" to add all discovered **Serial Device Servers**.



5. The **Serial Device Servers** will be mounted in Device Manager as "SDS Virtual Serial Port" with an associated COM port number.



Available Serial Port Options

Setting	Available Options
Baud Rate	 300 600 1200 1800 2400 4800 9600 4400 19200 8400 57600 115200 230400 921600
Data Bits	• 7 • 8
Parity	NoneEvenOddMarkSpace
Stop Bits	• 1 • 2
Flow Control	Hardware Software None

In the Software

- 1. Open the StarTech.com Device Server Manager.
- 2. Select "Configure in App" or double click the Serial Device Server in the list.

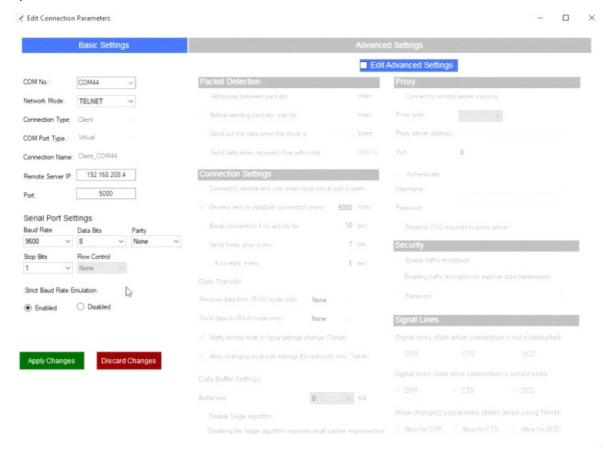
3. When the Settings Window opens, use the drop down menus to change Baud Rate, Data Bits, COM Port Number, and more.

Note: If changing the COM Port Number, see "Changing COM Port or Baud

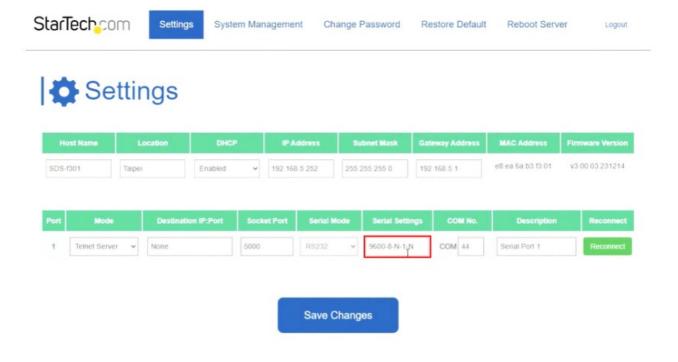
4. Select "Apply Changes" to save the settings.

In the Web Interface

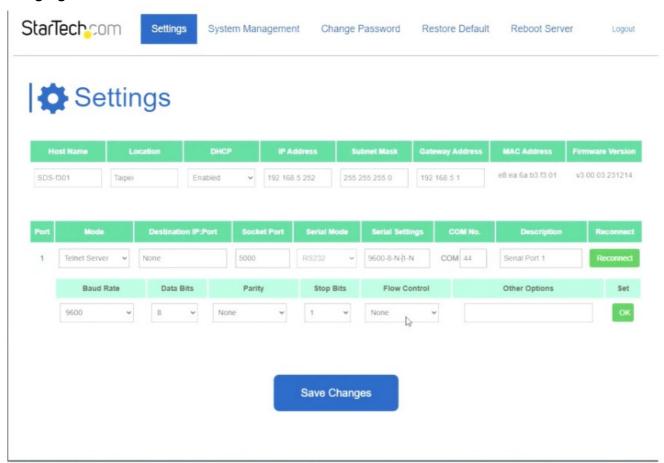
1. Open a web browser.



- 2. Type the IP address of the Se rial Device Server into the address bar.
- 3. Enter the password and select "Login". See Default Password on Page 6.
- 4. Select the "Serial Settings" to expand the options.
- 5. Use the drop down menus to change Baud Rate, Data Bits, COM Port Number, and more.
- 6. Under "Set", select "OK" to set the serial settings to the port.
- 7. Select "Save Changes" to save the settings to the Serial Device Server.



Changing COM Port or Baud Rate in Windows



To change the **COM** Port number or **Baud Rate** in **Windows**, the device must be deleted and re-created in the StarTech.com Device Server Manager.

Note: This is not necessary when using macOS or Linux which use Telnet to communicate with the Serial Device Server and do not map the device to a COM port or hardware address.

1. Open a web browser and navigate to the IP address of the Serial Device Server or click "Configure in

Browser" in the StarTech.com Device Server Manager.

- 2. Enter the Serial Device Server password.
- 3. Under "COM No.", change it to the desired **COM Port** number or change the **Baud Rate** to match the **Baud Rate** of the connected Serial Peripheral Device.

Note: Ensure the COM port number you assign is not already in use by the system, otherwise it will cause a conflict.

- 4. Click Save Changes.
- 5. n the StarTech.com Device Server Manager, click the Serial Device Server which should still have the old COM Port number, then click Delete.
- 6. Re-add the **Serial Device Server** using "Add Selected Server" to add specific **Serial Device Server** or "Add All Servers" to add all discovered Serial Device Servers.
- 7. The **Serial Device Server** should now be mapped to the new COM Port number.

LED Chart

LED Name		LED Function
1	Link/Activity LEDs (RJ-45)	 Steady Green: Indicates Ethernet connection has established, but no data activity Blinking Green: Indicates data activity Off: Ethernet is not connected
	PoE LED (RJ-45)	Steady Amber: Device is receiving PoE Power Off: Not receiving PoE Power
2	Serial Port LEDs (DB-9)	 Blinking Green: Indicates serial data is being transmitted and/or received Top LED: Transmit Data Indicator Bottom LED: Receive Data Indicator Off: No serial data is being transmitted or received
3	Power/Status LED	 Steady Green: Power is On Off: Power is Off Blinking Green: Restoring to Factory Defaults

Warranty Information

This product is backed by a two-year warranty. For further information on product warranty terms and conditions, please refer to www.startech.com/warranty

Limitation of Liability

In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Hard-to-find made easy. At StarTech.com, that isn't a slogan. It's a promise.

StarTech.com is your one-stop source for every connectivity part you need. From the latest technology to legacy products — and all the parts that bridge the old and new — we can help you find the parts that connect your solutions.

We make it easy to locate the parts, and we quickly deliver them wherever they need to go. Just talk to one of our tech advisors or visit our website. You'll be connected to the products you need in no time.

Visit <u>www.StarTech.com</u> for complete information on all StarTech.com products and to access exclusive resources and time-saving tools.

StarTech.com is an ISO 9001 Registered manufacturer of connectivity and technology parts. StarTech.com was founded in 1985 and has operations in the United States, Canada, the United Kingdom and Taiwan servicing a worldwide market.

Reviews

Share your experiences using StarTech.com products, including product applications and setup, what you love about the products, and areas for improvement.

CUSTOMER SUPPORT

To view manuals, videos, drivers, downloads, technical drawings, and more visit www.startech.com/support

StarTech.com Ltd.

45 Artisans Crescent London, Ontario N5V 5E9 Canada

StarTech.com LLP

4490 South Hamilton Road Groveport, Ohio

43125 U.S.A.

StarTech.com Ltd.

Unit B, Pinnacle 15

Gower ton Road Brackmills, Northampton

NN4 7BW United Kingdom

StarTech.com Ltd.

Siriusdreef 17-27 2132 WT Hoofddorp

The Netherlands

FR: <u>fr.startech.com</u>

DE: de.startech.com

ES: es.startech.com

NL: nl.startech.com

IT: it.startech.com

JP: jp.startech.com



Documents / Resources



StarTech com RS232 1-Port Serial Over IP Device Server [pdf] User Manual RS232, RS232 1-Port Serial Over IP Device Server, 1-Port Serial Over IP Device Server, Serial Over IP Device Server, IP Device Server, Device Server, Server

References

• User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.