# Setup Guide for Serial to Ethernet Converter TU-S9E



Connect the TU-S9 directly to your network. Make sure that the computer you are using is on the same network.

To create a serial COM port on your computer which the TU-S9E can connect through, you need to install the AXR2E Configuration Utility from our website

After installing the "AXR2E\_Configuration\_Utility\_Setup" file (either the 32-bit version or the 64-bit version) <u>Make sure to start the software as Administrator</u>, otherwise you might not be able to create a COM port successfully. To always have the utility run as Administrator right click on the AXR2E Configuration Utility shortcut on your desktop and click properties. Click on the compatibility tab. Under Settings. Make sure that "Run this program as an administrator" is checked. Click Apply then OK

| 😥 AXR2E Configu   | ration Utility Properti  | es                | ×   |
|-------------------|--|-------------------|-----|
| Security          | Details  | Previous Versions |     |
| General           | Shortcut   | Compatibility     |     |
|                   | working correctly on th<br>patibility troubleshooter<br>y troubleshooter |                   |     |
| How do I choose c | ompatibility settings ma   | nually?           |     |
| Compatibility mod | e  |                   |     |
| Run this progr    | am in compatibility mod  | le for:           |     |
| Windows 8         |  | $\sim$            |     |
|                   |  | 2                 | - 1 |
| Settings          |  | N2                |     |
| Reduced colo      | r mode   |                   |     |
| 8-bit (256) color | $\sim$   |                   |     |
| Run in 640 x 4    | 480 screen resolution  |                   |     |
| Disable fullscr   | een optimizations  |                   |     |
| Run this progr    | am as an administrator   | ]                 |     |
| Register this p   | rogram for restart   | -                 |     |
| Change hig        | h DPI settings   |                   |     |
|                   |  |                   | -   |
| Change setti      | ngs for all users  |                   |     |
|                   | ОК   | Cancel App        | ły  |

If your computer has more than one network connection, make sure to select the network interface that is in the same subnet as the TU-S9E.

| Selecting a network interface             |                          |  |  |  |  |  |
|---|--------------------------|--|--|--|--|--|
| Multiple network interfaces are detected! |                          |  |  |  |  |  |
| Please select a net                       | work interface properly: |  |  |  |  |  |
| Network Interface                         | 192.168.20.171 -         |  |  |  |  |  |
|   | 192.168.1.35             |  |  |  |  |  |
|   | 192.168.20.171           |  |  |  |  |  |
|   |                          |  |  |  |  |  |

# Click the "Search" button once the software is open

| System       | Search    | Device Setup | Reboot  | Firmware |
|--------------|-----------|--------------|---------|----------|
| Setting      | IP Search | Web Browser  | Restore | Upgrade  |
| Progress     | le        |              |         |          |
| Devices List |           |              |         |          |

## Click Broadcast then click Search

| Devices Searching                     |                               | ×      |
|---------------------------------------|-------------------------------|--------|
| O Multicast                           | <ul> <li>Broadcast</li> </ul> | Search |
| IP<br>225.1.2.3<br>∏L<br>1 I Loopback | IP<br>255.255.255.255         | Cancel |

The software should now find the TU-S9E and list it as shown below. Make a note of the IP address as it will be used later.

| R AXR2E Configuration Utility v | v1.6.0             |             |                |            |              |        |          |            |           |
|---------------------------------|--------------------|-------------|----------------|------------|--------------|--------|----------|------------|-----------|
| File View Help                  |                    |             |                |            |              |        |          |            |           |
| <u>21</u> 2 <u>0</u> 🖇 🖬 🛳      |                    |             |                |            |              |        |          |            |           |
| Device Management               | System             | Search      | Device Setup   | Reboot     | Firmware     | □ Use  | External | Browser    |           |
| Virtual Serial Port             | Setting            | IP Search   | Web Browser    | Restore    | Upgrade      | 🗆 Sear | ch After | Applicatio | on Start  |
| M Device Monitor                | Status<br>Progress | ldle        |                |            |              |        |          |            |           |
| DHCP Server                     | Devices List       |             |                |            |              |        |          |            |           |
| TS TFTP Server                  | NO.                | Device Name | MAC Addres     | s DHC      | P IP         |        | Port     | Mode       | Status    |
| COM Port Terminal               | □ 1                | TU-S9E      | 00-0E-C6-00-00 | 0-45 Enabl | e 192.168.20 | 0.165  | 5000     | Server     | Connected |
| Virtual COM Ports               |                    |             |                |            |              |        |          |            |           |
|                                 |                    |             |                |            | ĺ            | à      |          |            |           |
|                                 |                    |             |                |            |              |        |          |            |           |
|                                 |                    |             |                |            |              |        |          |            |           |
|                                 |                    |             |                |            |              |        |          |            |           |

#### Go to the "Virtual Serial Port" menu and click the "Add" button:

R AXR2E Configuration Utility v1.6.0

| File View Help              |   |                  |
|-----------------------------|---|------------------|
| 2 <u>1</u> 2 <u>0</u> 9 🖶 🗃 |   |                  |
| D Device Management         | Virtual Port / Network Configuration        | Remote Host Port |
| Virtual Serial Port         | Add Connect Connect Connect Connect Connect |                  |
| M Device Monitor            | Remove Close Client Enable Flow Control Pa  |                  |
| DHCP Server                 | Setting                                     | lan              |
| TFTP Server                 |   |                  |
| COM Port Terminal           | Virtual Serial Ports List                   | 6                |

If you are getting an "Open COM port DB failed" error when you click the "add" button, then it is because you did not run the AXR2E Configuration Utility as Administrator.



Select an available COM port number:

| COM Port Configuration |   |        | × |
|------------------------|---|--------|---|
| COM Port Number        |   |        |   |
| СОМ2                   | • | ОК     |   |
|                        |   | Cancel |   |
|                        |   |        |   |

### The COM port should now be listed in the Virtual Serial Ports List:

| RE     AXR2E Configuration Utility V       File     View       Help       Image: Second Se | /1.6.0  |  |  |   |  |   |
|---|---|--|--|---|--|---|
| Device Management     Virtual Serial Port     Device Monitor     DS DHCP Server     TS TFTP Server     C COM Port Terminal  |   | Connect<br>Close<br>Setting<br>d a virtual serial port | Virtual Port / Networ<br>Connection Protoco<br>TCP C UI<br>Mode<br>Client<br>C Server<br>Listen Port<br>successfully | DP <b>Remote Hos</b><br>DP <b>192</b> .16 | t IP<br>8 . 0 . 2<br>ow Control Packet<br>at Windows Start | 1 |
| E- Virtual COM Ports<br>└ COM2  | Virtual Serial Port<br>Port ID Port<br>12 COM | Name   | Status R   | lemote IP                                 | Remote Port  |   |

## Select the COM port and click Setting

| File View Help             |               |                          |                  |                   |                      |                  |
|----------------------------|---------------|--------------------------|------------------|-------------------|----------------------|------------------|
| D Device Management        | -Virtual Po   | Ort Network<br>Connect   | Connection Pro   |                   | Host IP              | Remote Host Port |
| Virtual Serial Port        | Remov         | re Close                 | Mode<br>Client   | I 192 .<br>I Enab | 168 . 0 . 2          |                  |
| DS DHCP Server             |               | Setting                  | C Server         | Conn              | ect at Windows Start |                  |
| C COM Port Terminal        | Status        | Added a virtual serial p | ort successfully |                   |                      |                  |
|                            |               | rial Ports List          | 0                | D 1 1D            |                      |                  |
| - Virtual COM Ports - COM2 | Port ID<br>12 | Port Name<br>COM2        | Status<br>Idle   | Remote IP         | Remote Port          |                  |

Enter the IP address of the TU-S9E in the Remote Host IP Field. In this example it will be 192.168.20.165. *Disable* "Enable Flow Control Packet" and click OK.

| RE AXR2E Configuration Utility v | 1.6.0                             |                                      |                         |           |                   |                  |
|----------------------------------|-----------------------------------|--------------------------------------|-------------------------|-----------|-------------------|------------------|
| File View Help                   |                                   |                                      |                         |           |                   |                  |
| <u>21</u> 20 🔋 🖬 🛳               |                                   |                                      |                         |           |                   |                  |
| D Device Management              | -Virtual Port                     | Network<br>Connect                   | Connection Prote        |           |                   | Remote Host Port |
| Virtual Serial Port              | Remove                            | Close                                | Mode     Client         | Enable F  | low Control Packe | 5000             |
| DHCP Server                      |                                   | ок                                   | C Server<br>Listen Port | Connect   | at Windows Start  |                  |
| C COM Port Terminal              | Status Addeo<br>Virtual Serial Po | l a virtual serial port<br>orts List | successfully            |           |                   |                  |
| □- Virtual COM Ports<br>└── COM2 | Port ID Port<br>12 COIV           | Name<br>12                           | Status<br>Idle          | Remote IP | Remote Port       |                  |
|                                  |                                   |                                      |                         |           |                   | ß                |

# Click the "Connect" button and the COM port should be ready to use on your computer

| RE AXR2E Configuration Utility v1 | 1.6.0                           |                                    |                                |                      |  |                  |
|-----------------------------------|---------------------------------|------------------------------------|--------------------------------|----------------------|--|------------------|
| File View Help                    |                                 |                                    |                                |                      |  |                  |
| <u>21</u> 20 🖇 🖬 🐿                |                                 |                                    |                                |                      |  |                  |
| D Device Management               | Virtual Port                    | Network                            |                                | work Configuration – |  |                  |
| Virtual Serial Port               | Add                             | Connect                            | Connection Prot<br>TOP<br>Mode |                      | stIP<br>68 . 20 . 165                  | Remote Host Port |
| M Device Monitor                  | Remove                          | Close                              | Client                         |                      | Flow Control Packe<br>at Windows Start |                  |
| DS DHCP Server                    |                                 | Setting                            | C Server                       |                      | at windows Start                       |                  |
| TS TFTP Server                    |                                 |                                    |                                |                      |  |                  |
| C COM Port Terminal               | Status Conn<br>Virtual Serial P | nected to remote hos<br>Ports List | t 192.168.20.165(              | @5000                |  |                  |
| Virtual COM Ports                 | Port ID Port                    | t Name                             | Status                         | Remote IP            | Remote Port                            |                  |
| COM2 (192.168.20.16               | 12 CO                           | M2                                 | Connected                      | 192.168.20.165       | 5000                                   |                  |
|                                   |                                 |                                    |                                |                      |  |                  |
|                                   |                                 |                                    |                                |                      |  |                  |
| < >                               |                                 |                                    |                                |                      |  |                  |

Check in Windows Device Manager to see if the COM port has been successfully created. After you verified the COM port power cycle the TU-S9E and it should be ready to use

| 🗄 Device Manager —                    | ×            |
|---------------------------------------|--------------|
| File Action View Help                 |              |
|                                       |              |
| > 🚯 Bluetooth                         | ^            |
| > 💻 Computer                          |              |
| > 👝 Disk drives                       |              |
| > 🏣 Display adapters                  |              |
| > 🏧 Human Interface Devices           |              |
| > 📷 IDE ATA/ATAPI controllers         |              |
| > 🥅 Keyboards                         |              |
| > III Mice and other pointing devices |              |
| > 🛄 Monitors                          |              |
| > 🖵 Network adapters                  |              |
| V 💭 Ports (COM & LPT)                 |              |
| ASIX Virtual Serial Port (COM2)       |              |
| Communications Port (COM1)            |              |
| 🛱 Printer Port (LPT1)                 | $\checkmark$ |
|                                       |              |