

How to connect RS485 to Ethernet?

Step 1: Adding RS485 in our network environment.

1. Connect the RS485 and PC / Laptop through a LAN

2. Configure RS485 using USR software where you have to search the module and configure its IP according to your network environment.

Step2: Provide a static IP to the RS485 and configure other setting such as per the reference in the picture and instructions in next step.

The image shows two side-by-side screenshots. The left screenshot is the 'Base Param' configuration window in USR software. It has two main sections: 'Base Param' and 'Port Param'. In 'Base Param', 'IP Type' is set to 'Static IP', 'Module Static IP' is '192.168.60.250', 'Subnet Mask' is '255.255.252.0', 'Gateway' is '192.168.0.1', 'DNS Address' is '255.255.255.0', 'User MAC' is 'F4 70 0C 6C 1A 9D', and 'Reset Timeout(s)' is '3600'. There are checkboxes for 'Clear Buffer Data Before Connected' and 'UART Set Parameter'. In 'Port Param', 'Parity/Data/Stop' is 'NONE | 8 | 2', 'Module work mode' is 'TCP Server', 'Remote IP' is '192.168.0.221', 'Short Connection Time' is '3', and 'Short Connection' is checked. Other fields include 'HTTP Port' (80), 'User Name' (admin), 'Password' (admin), 'Device Name' (RS485 TO), 'Baudrate' (9600), 'Local Port' (502), 'Remote Port' (8234), and 'Tcp connect num' (4). A 'Save Config' button is at the bottom. The right screenshot is a terminal window titled 'Ethernet adapter Ethernet:' showing network configuration details: 'Connection-specific DNS Suffix :', 'Description : Intel(R) Ethernet Connection (3) I218-LM', 'Physical Address : DC-4A-3E-5F-0F-6A', 'DHCP Enabled : No', 'Autoconfiguration Enabled : Yes', 'Link-local IPv6 Address : fe80::3da2:6eff:4815:7310%19(Preferred)', 'IPv4 Address : 192.168.60.2 (Preferred)', 'Subnet Mask : 255.255.252.0', 'Default Gateway : 192.168.60.1', 'DHCPv6 IAID : 333204030', 'DHCPv6 Client DUID : 00-01-00-01-2A-16-34-FE-DC-4A-3E-5F-0F-6A', 'DNS Servers : 208.67.222.222, 8.8.8.8', and 'NetBIOS over Tcpip : Enabled'.

1. Compare Subnet mask, default gateway and provide a suitable IP address according to your network environment. (Should be same as the router is providing, refer to the pictures mentioned above)

2. Now connect the RS485 to your LAN Port and search the module again on URS. The RS485 module will be detected.

Step 3: Connecting the RS485 to Internet (LAN Port) and opening its Dashboard on Browser

1. Now connect the RS485 to your LAN Port and search the module again on URS. The RS485 module will be detected.

2. Open the browser and search the static IP that was provided to the RS485 module and the dashboard will appear.