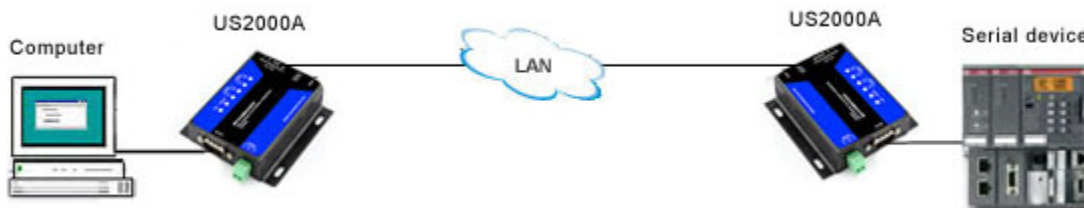


Tunneling mode over LAN setup using the US2000A Serial Ethernet Converter

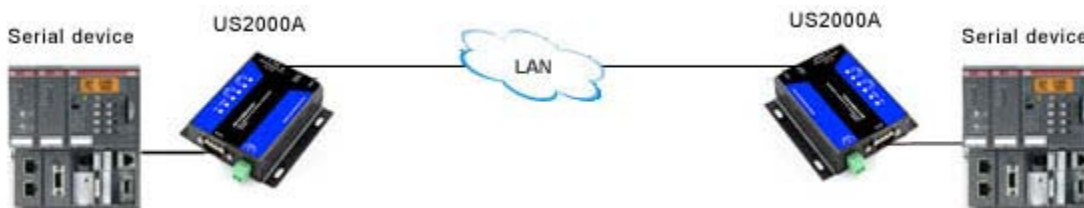
(also called peer-to-peer mode)

Serial tunneling allows you to establish a link between two serial device servers across an Ethernet network. The serial data is converted and packed into packets which can be transmitted over Ethernet and when it reaches the other serial device server the packets are converted back to serial data without any changes to the data structure. The following two examples are the most common setups for tunneling mode:

Serial tunneling between computer and serial device



Serial tunneling between two serial devices



One US2000A is configured as a Server and the other as a Client.

Server settings:

All default settings

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US2000A

[Logout](#)

Port 0 Settings

The current settings for port 0 may be changed using the form below. To make the new settings apply each time the S2E module is reset, ensure that "**Save these as next reset default settings.**" is checked before pressing the "Apply Changes" button. If this control is not checked, the changes are applied to the port but the existing defaults are used whenever the module is next reset.

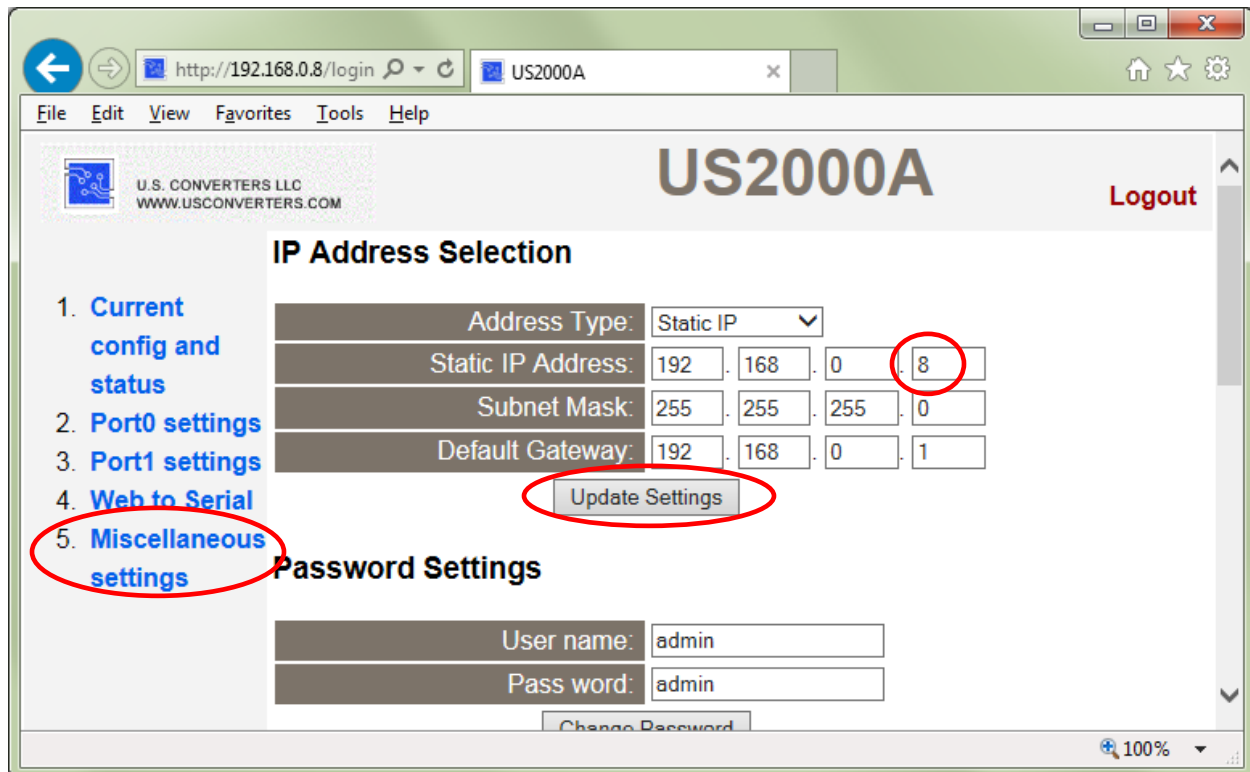
	Updated
Baud Rate:	115200 bits/S
Data Size:	8 bits/character
Parity:	None
Stop Bits:	1 bit(s)
Flow Control and RS485:	RS485
Local Port Number:	23 <input checked="" type="checkbox"/> Bind local port (when TCP Client)
Remote Port Number:	23
Work Mode:	TCP Server <input type="checkbox"/> None <input type="checkbox"/> Modbus TCP
TCP Server detail:	8 max, typical type
Remote Server Addr:	192.168.0.201
Timeout:	0 seconds (< 256, 0 for no timeout)
UART packet Time:	10 ms (< 256)
UART packet length:	512 chars (< 1024, 0 for no use)
Sync Baudrate(RF2217 similar):	<input checked="" type="checkbox"/>

Save these as next startup default settings.

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Client settings:

1. Login to the US2000A and go to the “Miscellaneous settings” page and change the IP address to something different from the Server unit, for example 192.168.0.8. Click the “Update Settings” button and let the US2000A reset. Login to the unit again by going to the new IP address, 192.168.0.8 in this example.



- Go to the "Port 0 Settings" page and change the "Work mode" to "TCP Client" and enter the IP address of the Server unit, in this example 192.168.0.7. Click the "Submit" button.

The screenshot shows a web browser window with the URL `http://192.168.0.8/login.cgi?user`. The page title is "US2000A" and the logo for "U.S. CONVERTERS LLC" is visible. The main heading is "Port 0 Settings". A sidebar on the left contains a menu with five items: "1. Current config and status", "2. Port0 settings", "3. Port1 settings", "4. Web to Serial", and "5. Miscellaneous settings". The "Port0 settings" item is circled in red. The main content area contains a paragraph explaining that settings apply on reset and that the "Save these as next reset default settings" checkbox must be checked. Below this is a form with various settings:

	Updated
Baud Rate:	115200 bits/S
Data Size:	8 bits/character
Parity:	None
Stop Bits:	1 bit(s)
Flow Control and RS485:	RS485
Local Port Number:	23 <input checked="" type="checkbox"/> Bind local port (when TCP Client)
Remote Port Number:	23
Work Mode:	TCP Client <input checked="" type="checkbox"/> None <input type="checkbox"/> Modbus TCP
Remote Server Address:	192.168.0.8 0.0.0.0
Timeout:	0 seconds (< 256, 0 for no timeout)
UART packet Time:	10 ms (< 256)
UART packet length:	512 chars (< 1024, 0 for no use)
Sync Baudrate(RF2217 similar):	<input checked="" type="checkbox"/>
<input type="button" value="Submit"/> <input checked="" type="checkbox"/> Save these as next startup default settings	

At the bottom of the page, the text "U.S. Converters LLC" and "WWW.USCONVERTERS.COM" is displayed. The browser's zoom level is set to 100%.

Serial data sent at one of the US2000A's will now appear at the other US2000A's serial port.