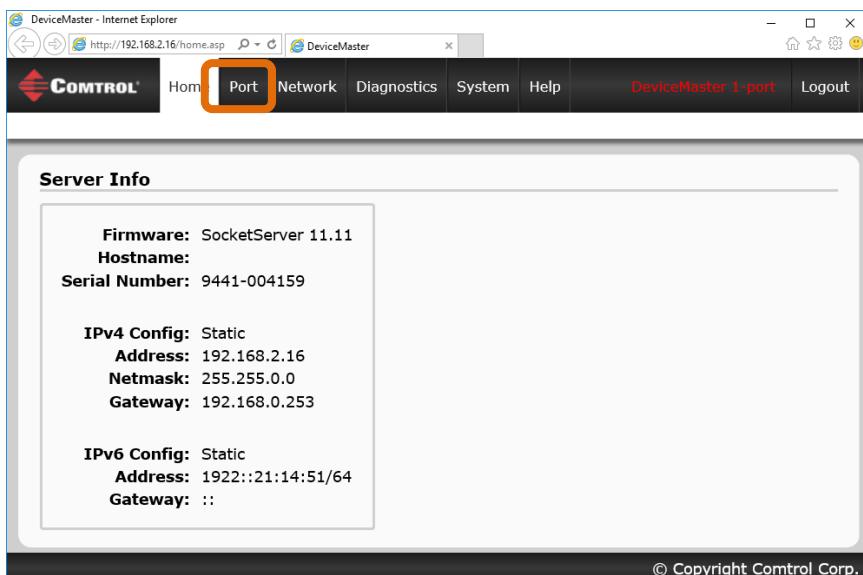


Quick Serial Tunnel Setup for SocketServer 11.+

In the example we will be using 2 DeviceMaster 1 port units.

Note the IP address shown in the URL Address line on all screen shots as many of the screens will look similar, but are NOT the same DeviceMaster units.

The IP Address's used in this example are 192.168.2.16 and 192.168.2.17



Server Info

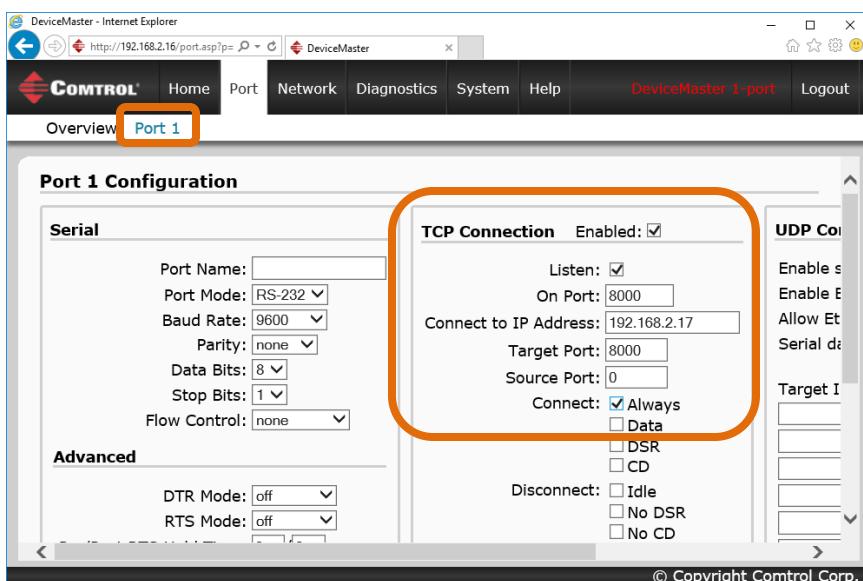
Firmware: SocketServer 11.11
Hostname:
Serial Number: 9441-004159

IPv4 Config: Static
Address: 192.168.2.16
Netmask: 255.255.0.0
Gateway: 192.168.0.253

IPv6 Config: Static
Address: 1922::21:14:51/64
Gateway: ::

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Open the web page to the DeviceMaster 192.168.2.16 and click on "Port".



Port 1 Configuration

Serial

Port Name: []
Port Mode: RS-232
Baud Rate: 9600
Parity: none
Data Bits: 8
Stop Bits: 1
Flow Control: none

Advanced

DTR Mode: off
RTS Mode: off

TCP Connection Enabled:
Listen:
On Port: 8000
Connect to IP Address: 192.168.2.17
Target Port: 8000
Source Port: 0
Connect: Always
 Data
 DSR
 CD
Disconnect: Idle
 No DSR
 No CD

UDP Connection

Enable:
Enable E:
Allow Et:
Serial da:
Target 1: []
[]
[]
[]
[]
[]

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- 1.) Place a checkmark in the "Enable" option
- 2.) Enter the IP Address of the opposite DeviceMaster in the "Connect to IP Address"
- 3.) Enter the "Target Port" value.
- 4.) In the "Connect:" group, place a checkmark in the "Always" box.
- 5.) Click "Save"

Notes:

This is the DeviceMaster 1 port, so select Port1

Note the IP Address in the URL is 192.168.2.16 and the address we use in the "Connect to IP Address" is 192.168.2.17. The 'On Port' field is by default 8000 thru 8031 for Physical Serial Ports 1-32.

In this example it is a 1 port so the default "Target Port" value will always be 8000 for Physical Serial Port 1. "Always" will maintain a persistent Ethernet connection.

In the bottom right of the screen (not shown in these screen shots) click the "Save" button.

Open the web page for the other DeviceMaster and go to Port 1

DeviceMaster - Internet Explorer
http://192.168.2.17/port.aspx?p=Port 1
COMTROL Home Port Network Diagnostics System Help DeviceMaster 1-port Logout
Overview Port 1

Port 1 Configuration

Serial

Port Name: []
Port Mode: RS-232
Baud Rate: 9600
Parity: none
Data Bits: 8
Stop Bits: 1
Flow Control: none

Advanced

DTR Mode: off
RTS Mode: off

TCP Connection Enabled:
Listen: On Port: 8000
Connect to IP Address: []
Target Port: 0
Source Port: 0
Connect: Always
 Data
 DSR
 CD
Disconnect: Idle
 No DSR
 No CD

UDP Conn
Enable s
Enable E
Allow Et
Serial da
Target I
[]
[]
[]
[]
[]
[]

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- 1.) Place a checkmark in the “Enable” option
- 2.) Click “Save”

DeviceMaster - Internet Explorer
http://192.168.2.17/port-overview?p=Port 1
COMTROL Home Port Network Diagnostics System Help DeviceMaster 1-port Logout
Overview Port 1

Port Overview

Port 1

Socket Connections
Local: [0.0.0.0]:8000
Remote: [192.168.2.16]:1043
Rx Count: 0
Tx Count: 0

Port Configuration (serial)
Port Mode: RS-232
Baud Rate: 9600
Parity: none
Data Bits: 8
Stop Bits: 1
Flow Control: none
DTR Mode: off
RTS Mode: off
Pre/Post RTS hold time: 0/0

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In the Overview of Port 1 You should see the IP Address and a socket number of the opposite DeviceMaster.

If there is no IP Address shown, then we do not have network communication to the other DeviceMaster .

DeviceMaster - Internet Explorer
http://192.168.2.16/port-overview?p=Port 1
COMTROL Home Port Network Diagnostics System Help DeviceMaster 1-port Logout
Overview Port 1

Port Overview

Port 1

Socket Connections
Local: [0.0.0.0]:0
Remote: [192.168.2.17]:8000
Rx Count: 0
Tx Count: 0

Port Configuration (serial)
Port Mode: RS-232
Baud Rate: 9600
Parity: none
Data Bits: 8
Stop Bits: 1
Flow Control: none
DTR Mode: off
RTS Mode: off
Pre/Post RTS hold time: 0/0

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Go back to 192.168.2.16 DeviceMaster; in the Overview we will see the IP Address and destination Port#

Once you begin to transmit or receive data you will see the “Rx Count” and “Tx Count” incrementing.

Notes:

The Tx and Rx values are values for the ETHERNET side of the DeviceMaster and not the serial port values.
Tx is sending data to the network. Rx is receiving from the network.