

Technical FAQ

Question:

What is the size of the TCP buffer on the NET232 and Wi232?

Answer:

The TCP buffers on the NET232 and Wi232 are 4K per port on the Transmit side and 10K shared for all ports on the RX side

Question:

How do I disable Bootp, DHCP, and AutoIP on a NET232?

Answer:

The switches are bit positions within the 3rd Octet of the IP address (x.x.X.x)

The 1 position controls auto ip - So 0.0.1.0 turns off AutoIP

The 2 position controls DHCP - So 0.0.2.0 turns off DHCP

The 4 position controls BOOTP - So 0.0.4.0 turns off BOOTP

Therefore, if you want to turn off DHCP and BOOTP, enter 0.0.6.0 as the IP. Then only AutoIP will work.

Enter 0.0.7.0 to turn off everything.

Question:

I need to make a serial tunnel connection from one NET232 to multiple NET232s, can I do this with the UDP protocol?

Answer:

The settings necessary for this configuration to automatically establish this connection are as follows. Note the reference to the NET232s by their number. You will also need to insure that the port parameters such as speed, number of bits, flow control etc., are correct on the NET232 for the serial device.

NET232 #1 -----

IP address - 192.168.5.10

Port No - 10001

Connect Mode - CC Datagram Type - 01

Remote IP Address - 192.168.5.255

Remote Port - 10001

NET232 #2 -----

IP address - 192.168.11.5.11

Port No - 10001

Connect Mode - CC Datagram Type - 01

Remote IP - 192.168.5.10

Remote Port - 10001

NET232 #3 -----

IP address - 192.168.5.12

Port No - 10001

Connect Mode - CC Datagram Type - 01

Remote IP - 192.168.5.10

Remote Port - 10001

NET232 #4 -----

IP address - 192.168.5.13

Port No - 10001

Connect Mode - CC Datagram Type - 01

Remote IP - 192.168.5.10

Remote Port - 10001

NET232 #5 -----

IP address - 192.168.5.14

Port No - 10001

Connect Mode - CC Datagram Type - 01

Remote IP - 192.168.5.10

Remote Port - 10001

Similar configurations will be used on other slaves. This will point NET232 #1 to all addresses in its subnet, the other NET232s will communicate only to NET232 #1.

This connection passes data only, status signals such as dsr/dtr/cts/rts are not passed between the NET232s.

Question:

When I log into a Net232 in "xx2" mode I can't ping it over the network. I can ping it when I log in with "xxx" or "xx1" mode. Why?

Answer:

Using 'xx2' starts up the Net232 without the ip protocol stack enabled, so you won't be able to access the Net232 over the network when it's in this mode.

If you need networking, you must use "xx1". Note that "xx1" might not start up if DHCP is enabled and there is no DHCP server or if you use token ring and the cable is not connected.

Here is a list of the different bootup modes via the serial port on the Net232:

xxx : bootup to configuration page w/o a network connection

- can go into the monitor mode by typing 'M' at the prompt
- ping will fail, PI x.x.x.x command will result in 'unreachable'

xx1 : bootup to the monitor mode w/ a network connection -
will wait on DHCP if enabled - ping to/from Net232 is
available

xx2 : bootup to the monitor mode w/o a network connection
- ping will fail, PI x.x.x.x command will result in 'unreachable'

yyy : bootup w/o a network connection
- ping will fail, PI x.x.x.x command will result in 'unreachable'