

# Locating/Changing the IP Address Using the Serial Port

HW260A Platform

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### Introduction

This document describes how to locate and change an RTA gateway using the hardware's serial port. This can be very helpful if you have no idea what network the gateway is set to and IPSetup has failed.

The tool demonstrated in this document is called Mttty. It can be found on the CD provided with your gateway or on our website at <u>http://www.rtaautomation.com/product/435-nbx-support/</u>.

This tool allows the user to display/change the IP Address of the gateway by connecting serially to the gateway.

# **Required Tools and Data**

You will need the following tools:

- The Gateway
- The provided CD-ROM
  - Mttty.exe can also be downloaded: <u>http://www.rtaautomation.com/product/435-nbx-support/</u>
- A Working PC (Windows based) with a serial port or a USB to Serial Converter
- The Supplied Ethernet Crossover Cable
- A serial cable with pins TX, RX, Ground connected to the 5-Pin Terminal Strip
- A 12-24 VDC power source



## **Changing / Viewing the IP Address of a Gateway**

- 1. Plug a cable going from our 5-Pin Terminal Strip to a serial port or USB to Serial Converter into your PC running Mttty.
  - a. The RX pin should go to the TX Pin 1
  - b. The TX pin should go to the RX Pin 2
  - c. The Ground pin should to the Common Pin 3
- 2. Connect your PC to the gateway using a crossover cable.



- 3. Open Mttty (refer to the Required Tools and Data for how to obtain).
- 4. Set the following Serial Settings:
  - a. Select the Com Port of the PC you are using
  - b. Baud: 115200
  - c. Parity: None
  - d. Data Bits: 8
  - e. Stop Bits: 1

Click the 'Connect' button.

| 2 Multi-threaded TTY   |  |
|--|--|
| File Edit TTY Transfer Help  |  |
| Port   Baud   Parity   Data Bits   Stop Bits   Local Echo   No Reading     COM9   115200   None   8   1   ✓   Display Errors   No Writing     Font   Comm Events   Flow Control   Timeouts   Connect   ✓   CR =>   CR/LF   No Status |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Modem Status   Comm Status     CTS   DSR   RING   RLSD (CD)     DSR   Hold   XOFF Hold   TX Char     DSR   Hold   XOFF Sent   TX Chars:     RLSD   Hold   EOF Sent   RX Chars:   |  |

5. Connect a 12-24 VDC power source to the gateway.



6. Once the unit powers up, you will have 2 seconds to hit 'Shift A' on your keyboard to access the hidden startup menu that will allow you to view or change the IP Address.

If you have successfully pressed 'A' within the 2 second window, the following prompt will display:

| Waiting 2sec to start 'A' to   | abort  |               |   |   |
|--|--|---------------|---|---|
| Configured IP = 10.1.54.105<br>Configured Mask = 255.255.0.0<br>MAC Address= 00:03:f4:08:fa:0<br>nb>Welcome to the Netburner A<br>Starting Monitor | 9íBoot config valid<br>lternate Boot Monitor Command | Program       |   |   |
| Netburner MCF5441x Alternate<br>HELP for help<br>nb>   | Image Monitor V1.00 May 23 201                       | 2 13:27:35    |   |   |
| • • • • • • • • • • • • • • • • • • •  |  |               |   | • |
|  | Comm Status  | 11:EVENT: CTS | * |   |

If no prompt appears, then check the wiring and serial settings to make sure those match. Also make sure you are connecting on the correct Com port.

7. At the "nb>" prompt, type "setup" and press enter. You will now see what the current settings are for the IP Address, IP Mask, etc.

If you want to change those current settings, a list of options will be given allowing you to change the IP Address, IP Mask, etc..

**NOTE**: Only modify the IP Address, IP Mask, and IP Gateway field as needed. Changing other settings may produce undesired results.



| 2 Multi-threaded TTY                       |   | - 0 <mark>- X</mark> |
|--|---|----------------------|
| File Edit TTY Transfer                     | Help  |                      |
| Port Baud   COM9 I15200   Font Comm Events | Parity Data Bits Stop Bits Local Echo No Reading   None ■ 1 ▼ Display Errors No Writing   Flow Control Timeouts Disconnect ✓ CR => CR/LF No Events   Volta Timeouts Disconnect ✓ Autowrap No Status |                      |
| nb>setup                                   |   |                      |
| MAC Address                                | = 00-03-F4-06-15-D1   |                      |
| 1.) IP Address                             | = 192.168.0.166   |                      |
| 2.) IP Mask                                | = 255.255.255.0   |                      |
| 3.) IP Gatewau                             | = 192.168.0.165   |                      |
| h ) TETP Server                            | = 8 8 8 8   |                      |
|  | - 0.0.0.0   |                      |
| 5.) IFTP F110                              | =   |                      |
| 6.) Baud Rate                              | = 115200  |                      |
| 7.) Wait                                   | = 2   |                      |
| 8.) Boot to                                | = Application   |                      |
| 9.) Exceptions Caus                        | e = Reboot  |                      |
| A.) DNS Server                             | = 8.8.8.8   |                      |
| B.) Boot Port                              | = 0   |                      |
| W.) Watch Dog                              | = Disabled  |                      |
| Q.) Quiet Boot                             |   |                      |
| 1-Q to change, S to                        | save, X to exit:  | •                    |
| Modem Status                               | Comm Status   |                      |
|  | RLSD (CD) CTS Hold XOFF Hold TX Char BREAK  |                      |
|  | RLSD Hold EDF Sent RX Chars: 0  |                      |

- 8. When changes are made enter 'S' to save.
- 9. Cycle power to the gateway to apply the changes just made in Mttty.

#### Support for your device is available any time.

Toll free: 800-249-1612 Email: support@rtaautomation.com