

Configuring the Mercury EN Radio Frequency Unit

(Ethernet)

Parts Needed:

- 2 Ethernet Mercury Units and Antennas
- 1 Supplied serial cable
- 2 Supplied power cable
- 1 Ethernet Cat5 cable (see below for instructions)
- 1 Null Ethernet Cable (see below for instructions)
- 1 PC with a terminal emulation set for VT100,8,N,1 AT 9600 baud and a 9 pin serial port
- 1 Small wire bent at a 90 degree angle

Directions for making the CAT5 network cable above:

White/Orange
Orange
White/Green
Blue
White/Blue
Green
White Brown/Brown

Hold the wires in your hand in numerical order from left to right (white orange, orange, white blue, green, etc...) place then inside an RJ45 modular clips with the locked tab facing away from you or downward.

Directions for making the Null Ethernet network cable above:

1. White with blue
2. Green
3. White/Orange
4. Blue
5. White/Blue
6. Orange
7. White Brown/Brown
8. Brown

Hold the wire in your hand in numerical order from left to right (white orange, orange, white blue, green, etc...) place them inside RJ45 modular clip with the locking tab facing away from you or downward.

Finish by putting the clip on the other end using the procedure for a CAT5 cable.

Programming

1. Connect the first Mercury to the computer using the serial cable supplies the unit.
2. Connect the power supply to the Mercury unit.

3. Using Tiny Term or a similar Terminal program (using the above communication settings) press configure using the small wire. A menu should appear.
4. Using the ARROW keys on the keys on the keyboard, select "Reset configuration to default" from the menu. Confirm the selection on the next screen.
5. Remove power from the first Mercury unit, and disconnect it from the serial cable.
6. Connect the second Mercury to the serial cable and power cable.
7. Restart the terminal program.
8. Press the configure button on the second Mercury unit using the small wire.
9. Using the ARROW key, select "Reset configuration to default" from the menu and confirm on the next screen.
10. At main menu, select Edit Configuration.
11. From the menu, select "RS-232 port (uart0)". A full screen of information will appear.
12. Scroll down to an area that looks like this:

```
[tpcbind1b]
protocol = tcp
ip address = 128.1.165
remote tcp port = 4000
```

13. On the line that reads "ip address = 128.1.1.65 change this to read 200.10.10.181
14. Press <ctrl w> to save the information.
15. From the menu, select "Bridged Ethernet (lan0)"
16. Scroll down to the line that says "ip address = 128.1.1.64 (line 21) and change the line to read "ip address = 200.10.10.180
17. Press <ctrl w> to save the information.
18. Disconnect the power and the serial cable from the unit.
19. Set-up second unit - connect power and serial cable to second unit.
20. Select "Edit Configuration"
21. From the menu, select "RS-232 port (aurt0)". A full screen of information will appear.
22. Scroll down to line 78

```
[tpcbind1b]
protocol = tcp
ip address = 128.1.165
remote tcp port = 4000
```

23. On the line that reads "ip address = 128.1.1.65 change this to read 200.10.10.180
24. Press <ctrl w> to save the information.
25. From the menu, select "Bridged Ethernet (lan0)"
26. Scroll down to the line that says "ip address = 128.1.1.64" line 21, and change the line to read "ip address = 200.10.10.181
27. Press <ctrl w> to save the information.
28. Disconnect the power and the serial cable from the unit.