Fox Delta

Amateur Radio Projects & Kits

Configuration information for FoxDigi - A 1200-Baud Packet Digipeater/TNC

FoxDigi EEPROM (PIC16F88) Configuration:

User data (Call Sign etc) is stored in FoxDigi's PIC16F88 chip, in form of a Firmware (Hex). User data must be changed to your requirement by using a simple "HyperTerminal" of the windows.

To enter configuration mode, connect a serial cable to J2. (No null modem required)

"Open" HyperTerminal and set it up for 9600N1 or 4800N1. (Depending on the firmware supplied on PIC16F88)

Apply power to Foxdigi and a message will appear indicating that foxdigi has responded. Type "help" to get list of commands.

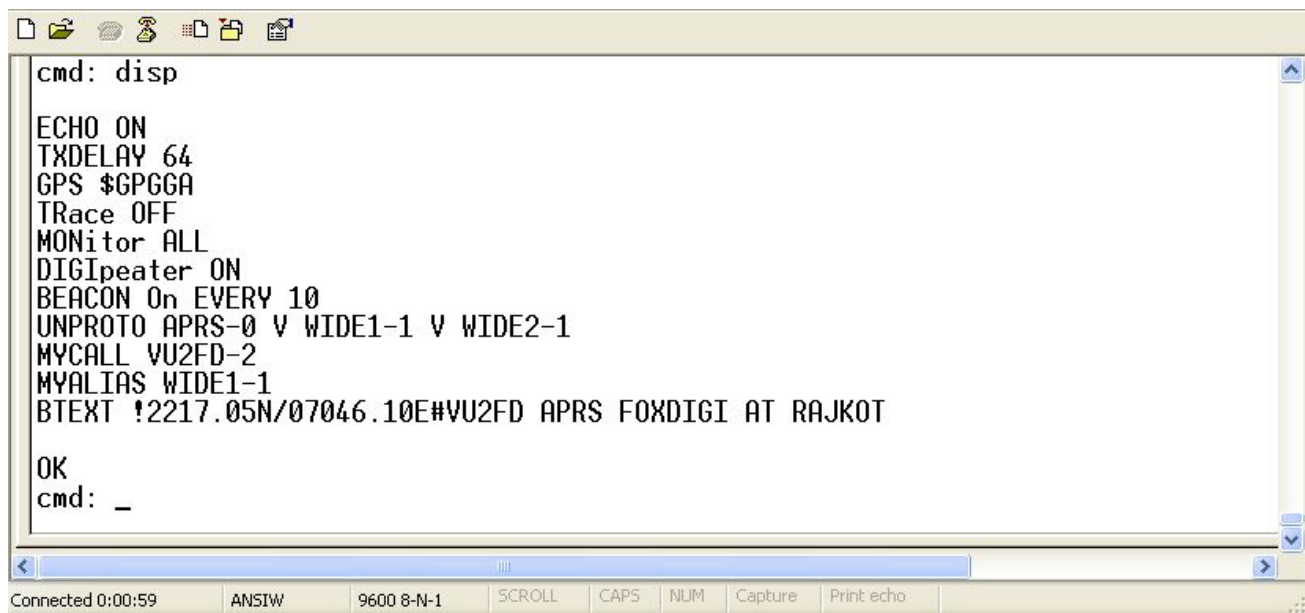## Configuration screen looks something like this:

```
Commands are Case Insensitive
Use Backspace Key (BS) for Correction
Use the DISP command to display all options
Insert Jumper J4 and Connect GPS for APRS Operation
Remove Jumper J4 and Connect to Terminal for Command Interpreter

Commands (with example):
MYCALL (mycall wb8wga-2)
UPPROTO (unproto wb8wga-14 v wb8wga-1) - 3 digis max
BTEXT (btext Bob)-100 chars max
BEACON (beacon every n)- n=0 is off and 1<n<60 mins
MONitor (mon all,mon me, or mon off)
DIGIpeat (digi on or digi off)
MYALIAS (myalias RELAY)
PERM (PERM)
ECHO (echo on or echo off)
GPS (gps $GPGGA or gps $GPGLL or gps $GPRMC)
TRace (tr xmit or tr rcv) - For debugging only
TXDELAY (txdelay n 0<n<201 n is number of delay flags to send)
CALIBRATE (Calibrate Mode - Testing Only)


OK
cmd: _
```

Connected 0:01:15 | Auto detect | 9600 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo

A sample setup for Stand Alone Digi Operation:

```
cmd: disp

ECHO ON
TXDELAY 64
GPS $GPGGA
TRace OFF
MONitor ALL
DIGIpeater ON
BEACON On EVERY 10
UNPROTO APRS-0 V WIDE1-1 V WIDE2-1
MYCALL VU2FD-2
MYALIAS WIDE1-1
BTEXT !2217.05N/07046.10E#VU2FD APRS FOXDIGI AT RAJKOT

OK
cmd: _
```

Connected 0:00:59   ANSIW   9600 8-N-1   SCROLL   CAPS   NUM   Capture   Print echo

Do not forget to use **"PERM"** command to save your settings in PIC.

Please ensure following:

1. Use **"DISP"** to see what is stored in PIC
2. Keep beacon at 10 or more to reduce load on APRS system.
3. In BTEXT, ensure that you have string correct: Start with **!** and end with **#**
4. Myalias need to be either **"RELAY"** or WIDE1-1.
5. If myalias is RELAY, insert **"RELAY"** in unproto too.
6. Do not forget to save your settings by using command **"PERM"**
7. No harm to experiment. Let me know if something better works!!!

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Please visit http://www.foxdelta.com for more information on this project.