



# NW Digital Radio

## DV3000U ThumbDV™ AMBE+2 Vocoder with USB Interface

### Features:

- DVSI [AMBE3000](#) Chip
- USB 2.0 Low Power (<100mA)
  - FTDI [FT230XS](#)
  - Windows, Linux, OS X
- UART Packet Interface
  - 230.4 kbaud
- Serial Test Software included

### D-STAR Open Source Applications:

- ircddbgateway
- Analog Bridge (DummyRepeater)
- dvtool file converter
  - Bi-directional analog to AMBE
- UDRX Support for D-STAR DV

Check the [website](#) for availability

### AMBE HW Vocoder For:

- DMR\*
- dPMR\*
- Yaesu Fusion
- P25 Phase 2

No SW Support for these protocols at this time

The DV3000U adds D-STAR DV capability to your computer or laptop. Allowing you to get on the D-STAR network without a radio.

The FTDI USB to serial converter has pre-installed driver support for Windows and Linux. Mac OS X is available from FTDI. The DV3000U is sold as a tested unit with free applications software offered by others.

The DV3000U provides a Packet UART interface at 230.4 kbaud via the FTDI 230XS. Audio Data is sent as 16 bits pcm at 8kHz sampling rate. The AMBE Vocoder returns a 3600 bps compressed stream with FEC (Forward Error Correction) which is muxed with 1200 bps of ancillary digital data by the D-STAR protocol to produce a 4800 bps D-STAR DV stream.

LEDs show Transmit and Receive.

