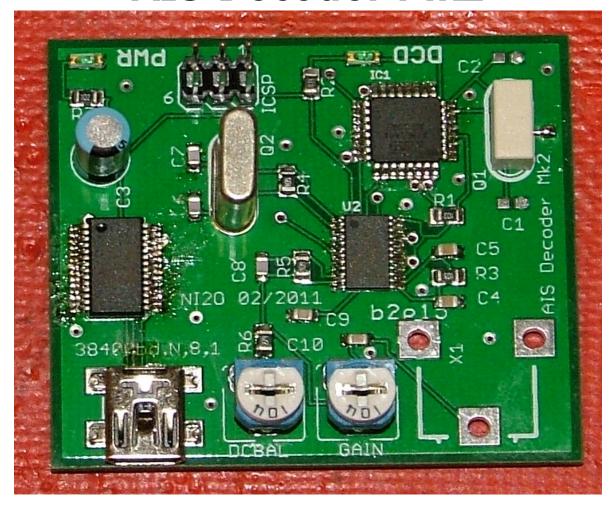# AIS Decoder Mk2

Schematic diagram and notes V1

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http://www.gmskhotspot.com/aisdecodermk2.html

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Installation Notes

Thank you for purchasing the ENIcommunications Corp AIS Decoder Mk2. For updates to this document visit http://www.gmskhotspot.com/aisdecodermk2.html

Construction

The AIS Decoder Mk2 board is supplied pre-assembled. There are no user installable parts.

There is a part missing from your board. You'll notice a part labeled "ICSP" having either 6 or 10 holes has not been installed. Should there ever be an update to the firmware that resides on your board you'll need to insert your programmer into these holes in order to re-program the on-board microprocessor. If you don't have access to an AVR programmer please feel free to contact ENIcommunications Corp to arrange for your board to be returned to us for reprogramming.

Your board does not come packaged in an enclosure. Any number of small plastic boxes from RadioShack would suffice but the board is small enough that you could mount it inside your AIS receiver.

Testing

Your AIS Decoder Mk2 has already been rigorously tested and found to be functioning correctly.

Setup & Operation

Connect a USB "Mini B" cable between your PC and your AIS Decoder Mk2. If you're running a Windows based machine it should detect the presence of a new device and try to install the drivers for it. The "prime mover" on this device is a FT232RL USB to Serial interface chip. Many windows system already know about this chip and so will install the drivers automatically.

If your machine cannot locate the drivers for this chipset please download and install the drivers found at the above URL. The device will eventually be installed as a serial port. You will have to look in your device manager to know what com port number has been assigned to the device.

Linux/Mac users will notice a new /dev/ttyUSBx device appear.

Point your favorite AIS decoder software at the newly installed serial port using the following port parameters; 38400bd, no parity, 8 data bits, 1 stop bit.

Connect an 1/8th inch audio cable between your AIS receiver's discriminator output (often called "baseband") and the audio jack on the board. In a busy harbor area you should start to see data flowing into your software within a few seconds.

Warranty and limitation of liability

No warranty is given or implied with this device. ENIcommunications Corp accepts no liability for damages caused by this device.

Credits

Firmware: Alex Skafidas & Peter Baston
Hardware: Original by Alex Skafidas
Modifications by Mark Phillips