



VUMAX-2 (06/2014)

4 channel bargraph/VU meter

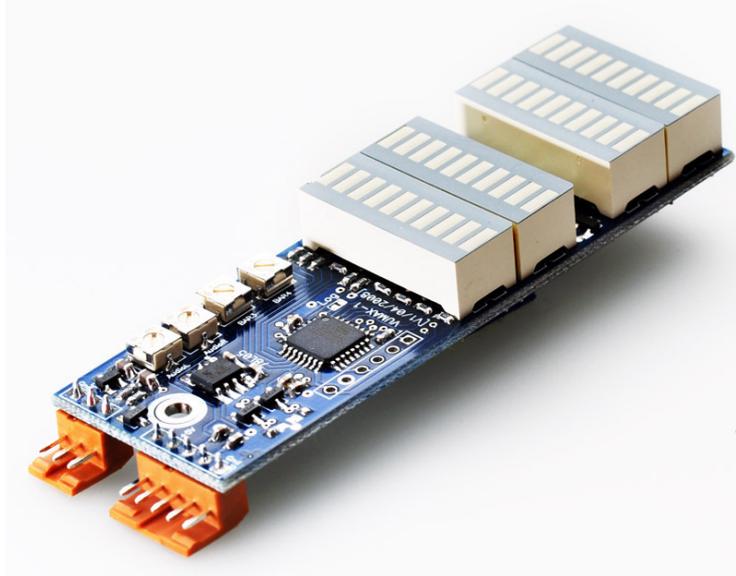


Fig.1: VUMAX-2

This is a perfect companion for our SE3000 or SE5000 stereo encoders, it plugs into the dedicated 3-pin VU meter jumper to show audio level on two 10-LED bargraph displays. Additional 2 bargraph displays are available to show other parameters, such as output power or SWR. Sensitivity of each of the 4 channels can be adjusted with one of the four on-board trimmers.

Each of the 10-led bargraph displays consists of 7 green and 3 peak indicating red diodes at the top.

Technical specifications:

- Supply voltage: 7-15V DC
- Supply current: 150mA max
- Number of channels: 4
- LED diodes: 4x10 per channel, 7 green + 3 red
- Audio input: 1Hz-20KHz, two channels, adjustable sensitivity, built-in rectifier (accepts sine voltage)
- Extra 2 inputs: 0-5V DC, sensitivity adjustable with a trimmer
- Audio Input Impedance: 1 Kohm
- Extra inputs impedance: 1 Kohm
- PC Board Size: 85x30mm
- Connectors: one 3-pin header and 5-pin header, see below for pinout
- Weight: 0.1Kg

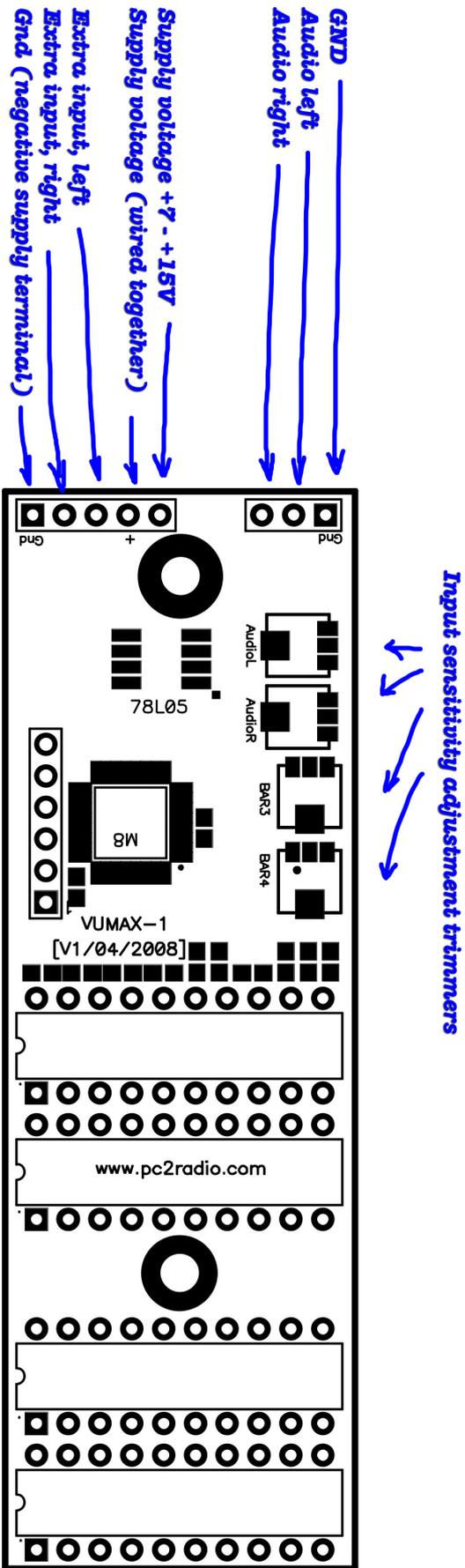


Fig. 2: VUMAX-1 connections and board layout

INSTALLATION AND USE

Simply connect power supply (7-15V) to positive terminal and GND. Note that pins 4 or 5 are both wired together on the PCB so you can only connect positive power terminal to one of these two. Please do not reverse polarity as that can kill VUMAX-1.

Connect the audio inputs to your audio source or to dedicated jumper on SE3000 AN+ (J16VU jumper) or SE5000 DSP+ (LRGnd jumper) stereo encoder. This jumper is found a few centimetres above the audio inputs.

You can connect the other two inputs to your source of choice, they can show any DC voltage, for example supply voltage, RF output power or SWR (there is 3-pin jumper on MAX PRO 3000+), temperature (just connect it to NTC and voltage divider, ask for schematic if needed) or other parameters.

When you turn the unit on it first displays a short light-show, you can use this to verify the status of all led diodes and the device itself.

THANK YOU FOR PURCHASING VUMAX-1!

We hope you will enjoy it as much as we do and remember to tell your friends about it. Please feel free to leave your comments at our website or post your experience in our forum.

From all of us we wish you happy broadcasting!

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TROUBLESHOOTING TABLE

PROBLEM DESCRIPTION	POSSIBLE SOLUTIONS
No LED diodes are lighting up at any time	<ol style="list-style-type: none">1. Check supply power and voltage2. Did you connect power supply to correct pins?3. You may have reversed power supply polarity and killed VUMAX-1, did you notice any damage to the board? Do not reverse polarity
Only a few leds light at maximum audio level	<ol style="list-style-type: none">1. Adjust sensitivity with a trimmer2. Connect audio input to another point in your system with higher audio level, unit needs about 1V to light all leds

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