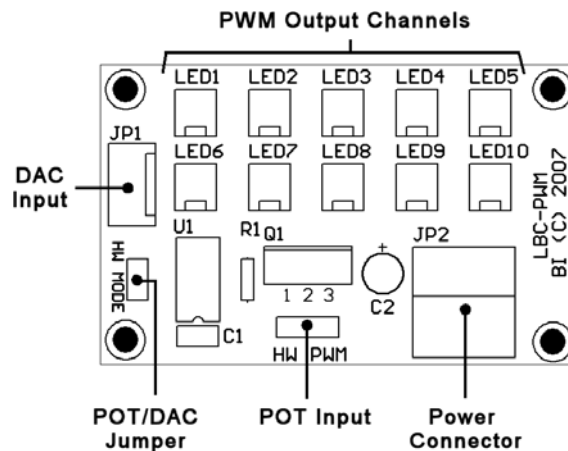The LBC-PWM LED Brightness Control card is designed to control LED brightness through a single POT or under software control via a DAC output. LED brightness is achieved by pulse width modulating the output from 0 to 100% duty cycle for complete brightness control.

Features:

- 10 PWM channels each rated @ 500mA, 12V output. Suitable for all AC3XX gauge backlights.

- 8-bit resolution PWM (256 levels)

- Dx10-8BIT, NITRO, RXC and POT input control connectors.

- Selectable DAC or POT input control.

Application:

The LBC-PWM brightness control card is ideally suited for controlling up to 10 AC3XX LED backlights either through a POT or DAC under software control. The power can be supplied either through the DAC connector *JP1* or by connecting a standard ATX PS to the power connector *JP2*.
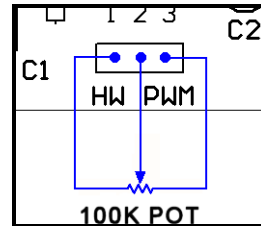
HW MODE Jumper:

The *HW MODE* jumper selects the input, DAC or POT to be used to control the PWM output.
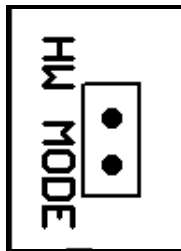
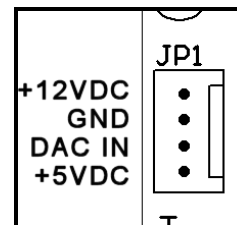POT PWM Control
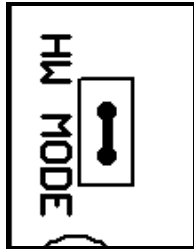
POT PWM Control

Pot connector pinout

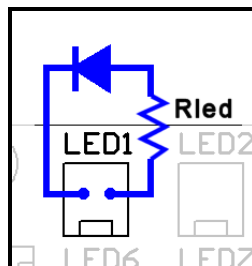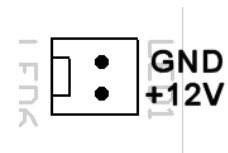DAC PWM Control

POT PWM Control

JP1 pinout

IMPORTANT: When selecting DAC PWM control, the power connector *JP2* must remain unconnected. The DAC connector *JP1* will supply all necessary power.

PWM Output Channels

Each channel is capable of sourcing 500mA @ 12V. When controlling individual LED brightness, a current limiting *Rled* must be used.
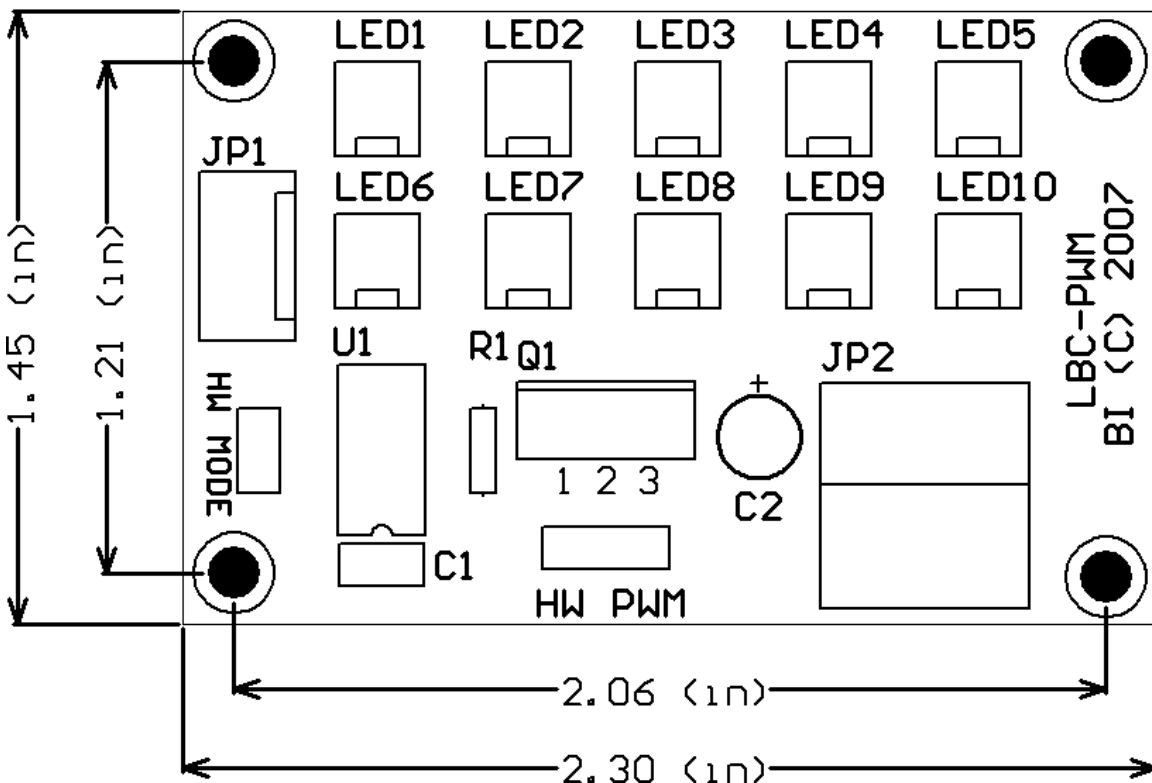
Beta Innovations

All AC3XX Backlights can be connected directly to the output channels as illustrated below, paying particular attention to the red and white wires. Several backlights can be connected in parallel provided that the total current draw does not exceed 500mA per channel.
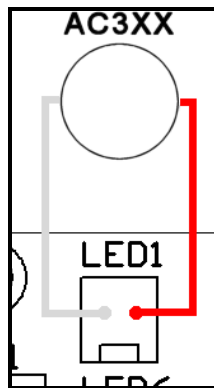
Mechanical Specifications:

Visit www.betainnovations.com for the availability of expansion modules and accessories.