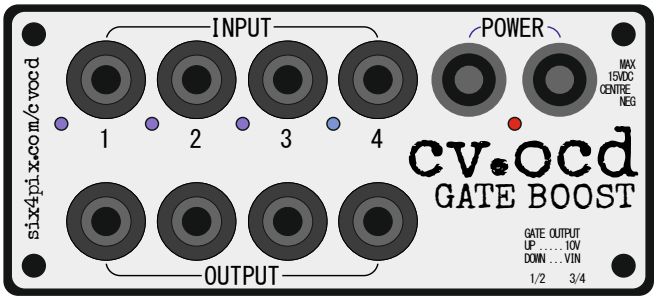

The GATE BOOST module amplifies +5V gate, trigger and clock pulses so that they can be used with older synth equipment that requires higher voltage signals.

Powering GATE BOOST: The module can be powered using a supply of 7-15V DC with a 2.1mm centre negative plug and a 100mA or higher rating. Typically, a 9V effect-pedal type supply is used.

The module has with two parallel power sockets so that a single power supply can be shared with the CV.OCD MIDI-to-CV converter using the power jump cable supplied.

The POWER LED lights when the module is powered.

Connecting Signals: Use standard 3.5mm mono patch cables to connect the four inputs to your CV.OCD (or other equipment) gate outputs, and the corresponding four output sockets to your synth equipment.

When an ON signal is present at an input, the associated INPUT LED will light. Note that the LEDs for unconnected inputs might light dimly or flicker – this is normal.

Selecting the Output Voltage: The output level for each pair of channels (1/2 and 3/4) can be selected to use an internally generated +10V reference, or the incoming power supply voltage.

Use the small DIP switches on the front of the unit to select the output pulse voltage; the left switch controls channels 1/2 and the right switch controls channels 3/4. When a switch is in the UP position, 10V is used for that pair of channels. When the switch is DOWN, the power supply voltage is used (*if it is more than 10V*, otherwise 10V is still output)

Usage:
Never use a power supply voltage greater than 15V

The 10V output level is created by an internal DC/DC converter, even when a power supply less than 10V is used.

The INPUT LEDs will show signal status even when the device is not powered. This enables the GATE BOOST to be used as a tool for simple checks on gate and CV signals.

The input signal for each channel passes through a circuit that applies a voltage threshold and "hysteresis" to determine when the output should be ON or OFF. This ensures a sharp rising edge on the output even when the input is a non-square wave form or is noisy.

We hope you enjoy using the GATE BOOST and find it useful. If you have any questions please contact us at sixtyfourpixels@gmail.com

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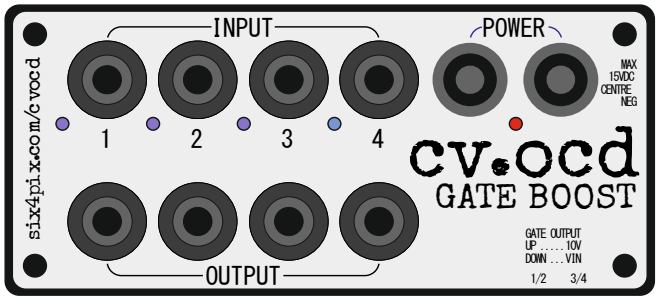

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