

C10 - BIDIRECTIONAL BREAKOUT BOARD Rev. 8 WIRING GUIDE

JUMPER POSITION		
PINS	OUTPUT	INPUT
INPUT	5	13
OUTPUT	12	4
TOTAL	17	17

Connect to a PC parallel port. It can take +3.3 or +5vdc signals.

+5vdc are required at the EN pin in order to enable outputs. If signal is missing all outputs will go to ground. This so you can install a switch or safety charge pump. If you do not require this, this pin can be hardwired with +5vd from the power source.

Use the jumper to set the pins 2-9 to act as input or for output.

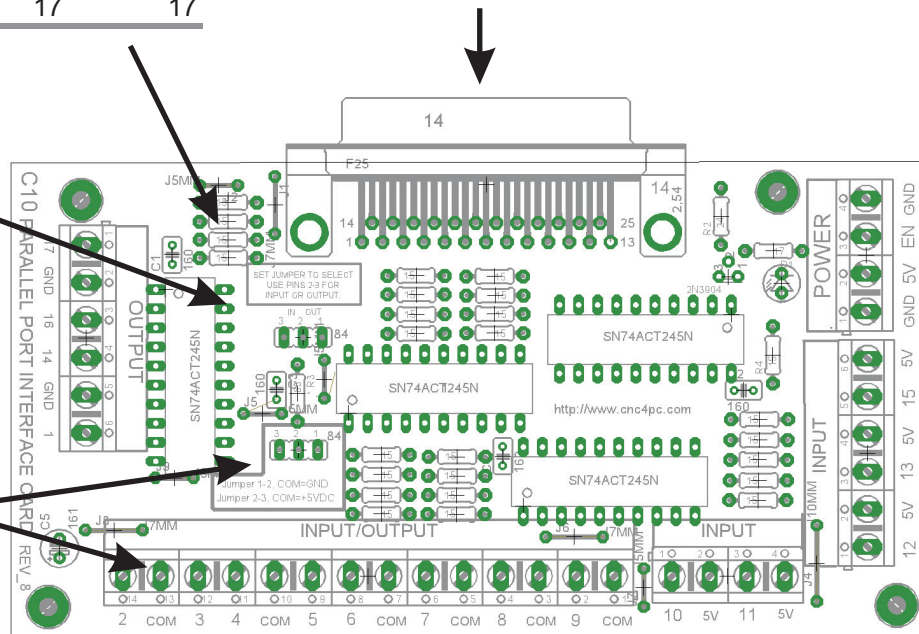
The COM terminals can be +5vdc or ground. Depending on the position of the jumper. Select it according to your needs.

The output pins will deliver the voltage that is provided to power the board. Each pin can deliver 24 to 48 milliamps. Each buffer is used to 50% or less than it's maximum capacity for increased reliability.

All Inputs are provided with pull-down resistors, so if left in the air, they will return a ground. So the inputs are never in the air. This is to prevent noise from getting into your system. The wires that carry the signals from limit switches sometimes can act as antennas that can bring noise into the signal. This implementation prevents this from happening.

To generate an input, a +5vdc signal is required. This signal can be taken from the terminal next to the input pin.

A +5vdc at 400 milliamp power supply is required. It can also be powered with a PC power supply or USB power cable.



This card must be powered while your system is under power. Keep in mind noise can be transmitted into output signals that could trigger unwanted actions in your system.