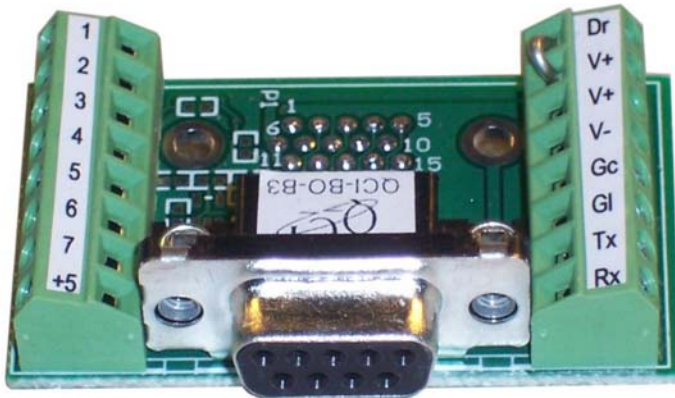


## QCI-BO-B3 Basic Breakout Module



### Basic Breakout 3 Connected to SilverNugget N3



## Product Overview

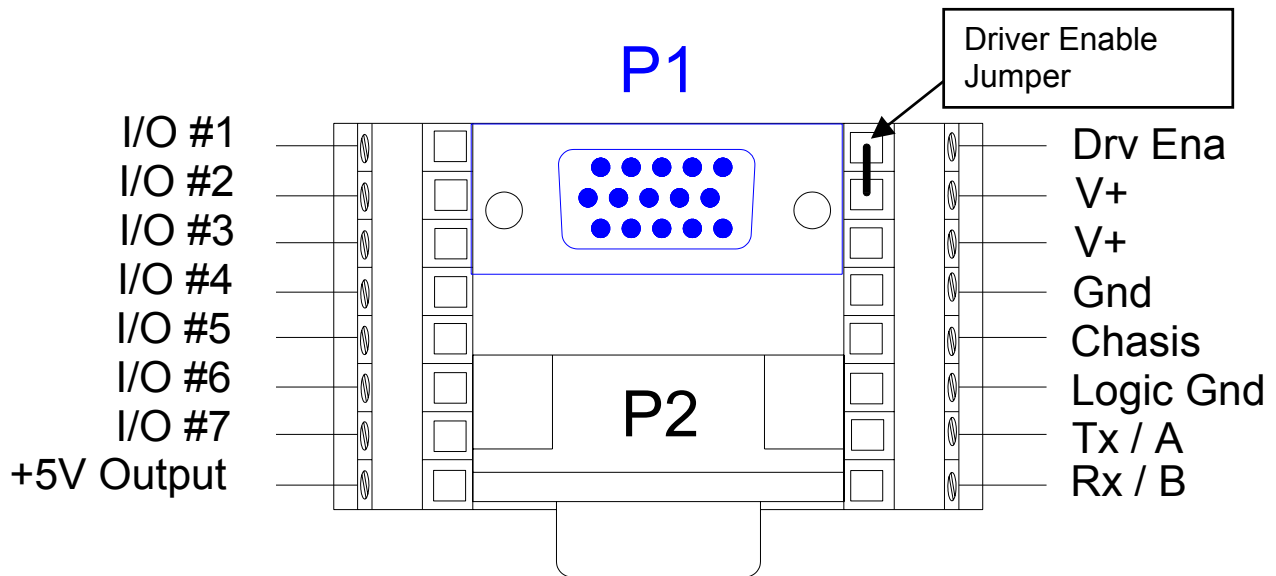
QCI-BO-B3 is an inexpensive way to breakout the SilverLode Multifunction Interface (SMI) port on the SilverNugget N3 servo controller/driver. The SMI port includes power, communication and I/O.

The provided screws lock the breakout to the SMI port (DB15HD (Socket)). There are two terminal blocks that breakout the SMI port's 15 pins. A DB-9 (Socket) connector is provided to connect to a standard PC communications (RS-232) port via a straight (pin to pin) D9 cable (QCI-C-D9F9M-6).

The factory ships the QCI-BO-B3 with a Driver Enable jumper from V+ to Drv Ena. Remove this jumper to separately control the Driver Enable line.

## SMI Port Pin-Out Descriptions

SMI Port (P1)									
1	Driver Enable 10-48VDC	4	I/O #3	7	V+ Processor 12-48 VDC	10	I/O #5	13	I/O #1
2	RS-485 A/ RS-232 Tx	5	I/O #6	8	Logic Gnd	11	Processor. Gnd	14	I/O #4
3	+5V Output @100 mA	6	Processor Gnd	9	I/O #2	12	RS-485 B/ RS-232 Rx	15	I/O #7



The diagram below shows a typical setup using a Basic Breakout 3 with a SilverNugget N3 and clamp module.

When using more than one power supply, connect the grounds of the power supplies together.

For more details on using the SilverNugget N3, see datasheet QCI-DS006.

