

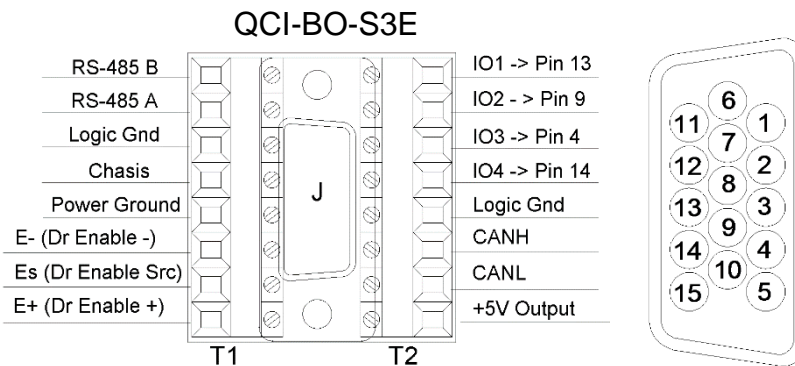
## SilverSterling S3 Basic Breakout w/ Drive Enable – QCI-BO-S3E

The SilverSterling S3 basic breakout connects directly to the SilverSterling S3’s 15-pin interface port (SIP). QCI-BO-S3E breaks out, RS-485 communication, CAN, 4 I/O, and a hardware drive enable input. The hardware drive enable input allows the drive circuit to be hardware disabled, providing a hardware safety option that allows the entire driver circuit to be disabled while the control electronics remain active. Current position information as well as any other user information is maintained. The drive enable input requires 6v to 48v to enable the drive. See page 2 for drive enable wiring options.

The provided screws lock the breakouts to the DB15HD connector. There are two, 8 position terminal blocks that secure wiring.

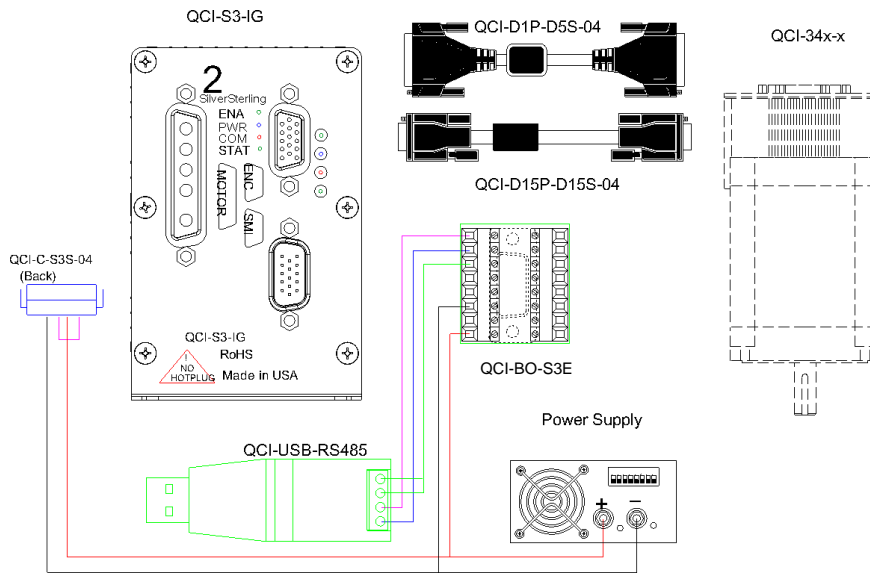
Terminal Connector Wire Range: 16-28 AWG

### Pin-out Descriptions



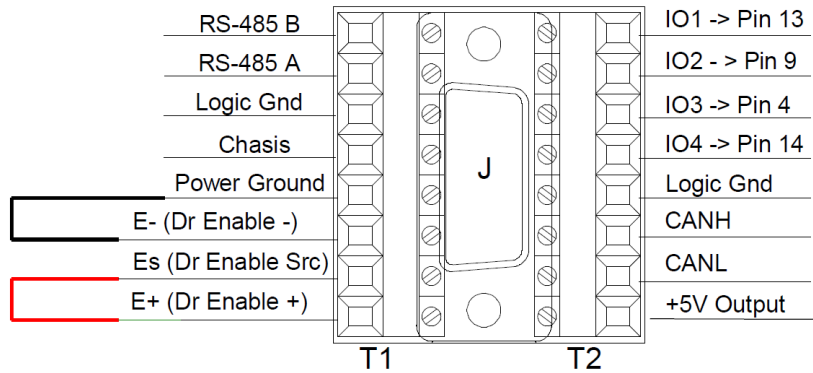
Pin #	Signal
1	E+ (Drive Enable +)
2	RS-485A
3	+5v Output (100mA)
4	I/O #3
5	CAN High
6	E- (Drive Enable -)
7	Es (Drive Enable Source)
8	Logic Ground
9	I/O #2
10	Logic Ground
11	Power Ground
12	RS-485B
13	I/O #1
14	I/O #4
15	CAN Low

### How to Use



## Drive Enable Wiring Options

### 1. No drive enable functionality (Factory Default).

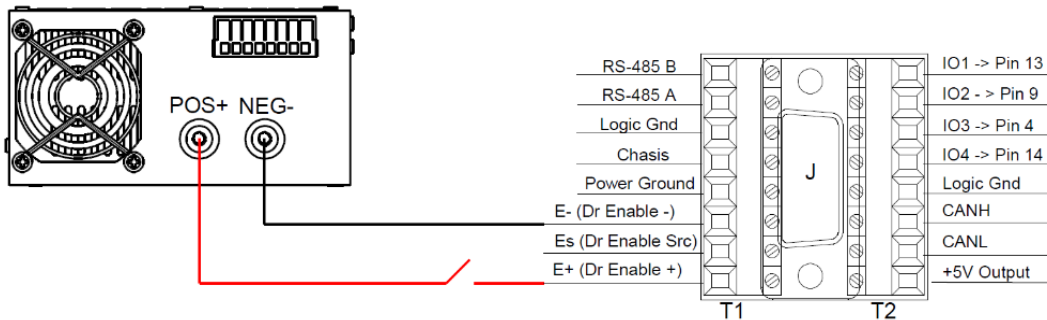


- a. Two wire jumpers are applied across terminals
  1. E+ (Drive Enable+)  $\leftrightarrow$  Es (Dr Enable Src)
  2. E- (Drive Enable-)  $\leftrightarrow$  Power Ground

b. Notes:

- Hardware drive enable is always enabled.
- Driver can still be disabled via software.

### 2. Isolated drive enable input



- a. Connect E- (Drive Enable-) to negative power supply terminal.
- b. Connect E+ (Drive Enable+) to positive power Supply terminal (6v to 48v) in series with an E-stop switch.

c. Notes:

- For full isolation, use separate/isolated power supplies for drive enable input and S3 driver power (6-pin blue power connector).
- If full isolation isn't required, the same power supply can be used for both driver enable input and S3 driver power.