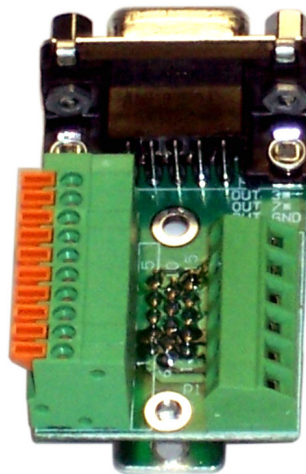


Basic Breakout with 24V 5 In, 2 Out - QCI-BO-B52



QCI-BO-B52

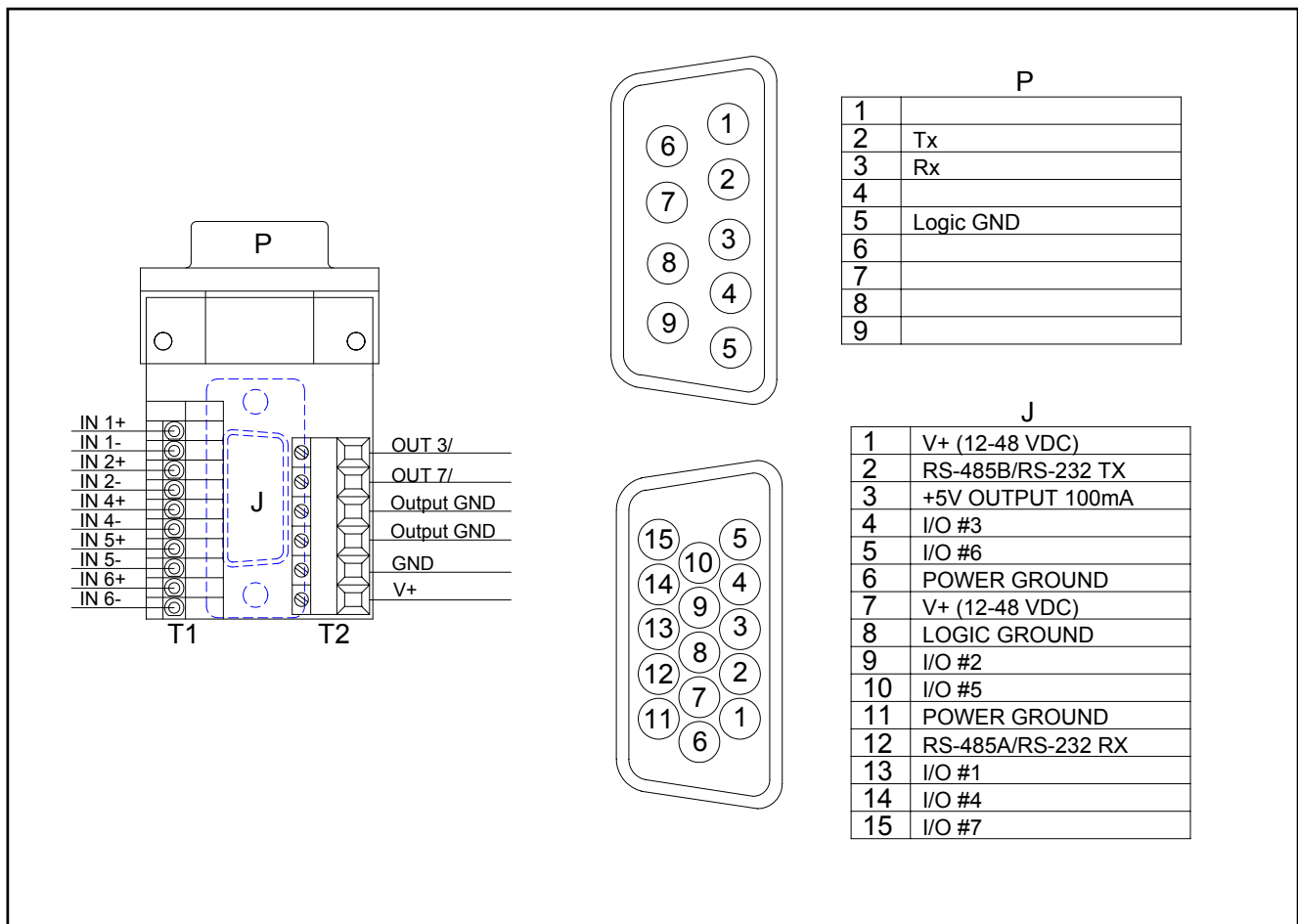
Product Overview

The QCI-BO-B52 is a breakout module with 5 isolated 24v inputs and 2 non-isolated 24v outputs. The outputs are open drains rated for 24 volts power supply, 1A. The B52 breakout connects to the following controller/drivers via the SMI Port:

- SilverDust MG (QCI-DS-004)
- SilverNugget N2 (QCI-DS005)
- SilverDust IG8 (QCI-DS018)
- SilverDust IG (QCI-DS019)
- SilverDust IGF (QCI-DS021)

Note: the QCI-BO-B52 does not connect to the SilverDust IGB.

Electrical Specifications



There are five isolated input pairs labeled IN1, IN2, IN3, IN4, IN5 which drive SMI port (J) inputs IO1, IO2, IO4, IO5, and IO6 respectively. A 10 to 30v signal into the input causes the respective IO to be driven LOW. In the absence of an input, these IO are passively pulled HIGH.

There are two non-isolated open drain outputs OUT3 and OUT7, controlled by IO3 and IO7. A high level on IO3 or IO7 causes the respective output to become active (drive to 0v).

Isolated Inputs

0 to 30 VDC (Recommended for 24V operation) 0-1V: Input is LOW, producing logic HI at respective IO. Input current is approximately 1mA at 10v input, 3mA at 30v input.

10V-30V: Input HIGH produces logic LOW at respective IO

NOTE: Inputs are NOT sensitive to polarity of input (inputs are reversible).

Output Current

Sinking Only (Set IO HIGH to turn ON output FET – Pulls output low; Set IO LOW to turn OFF FET – Output floats).

Up to 1.0 amps per channel continuously. If the load draws more than the specified current, the I/O Driver is designed to go into current/thermal limit mode causing the FET to turn off.

I/O Over-Voltage Protection

Each output line will clamp at approximately 40 volts. Applying more than 40 volts may permanently damage the output lines.

Typical Wiring Diagram

