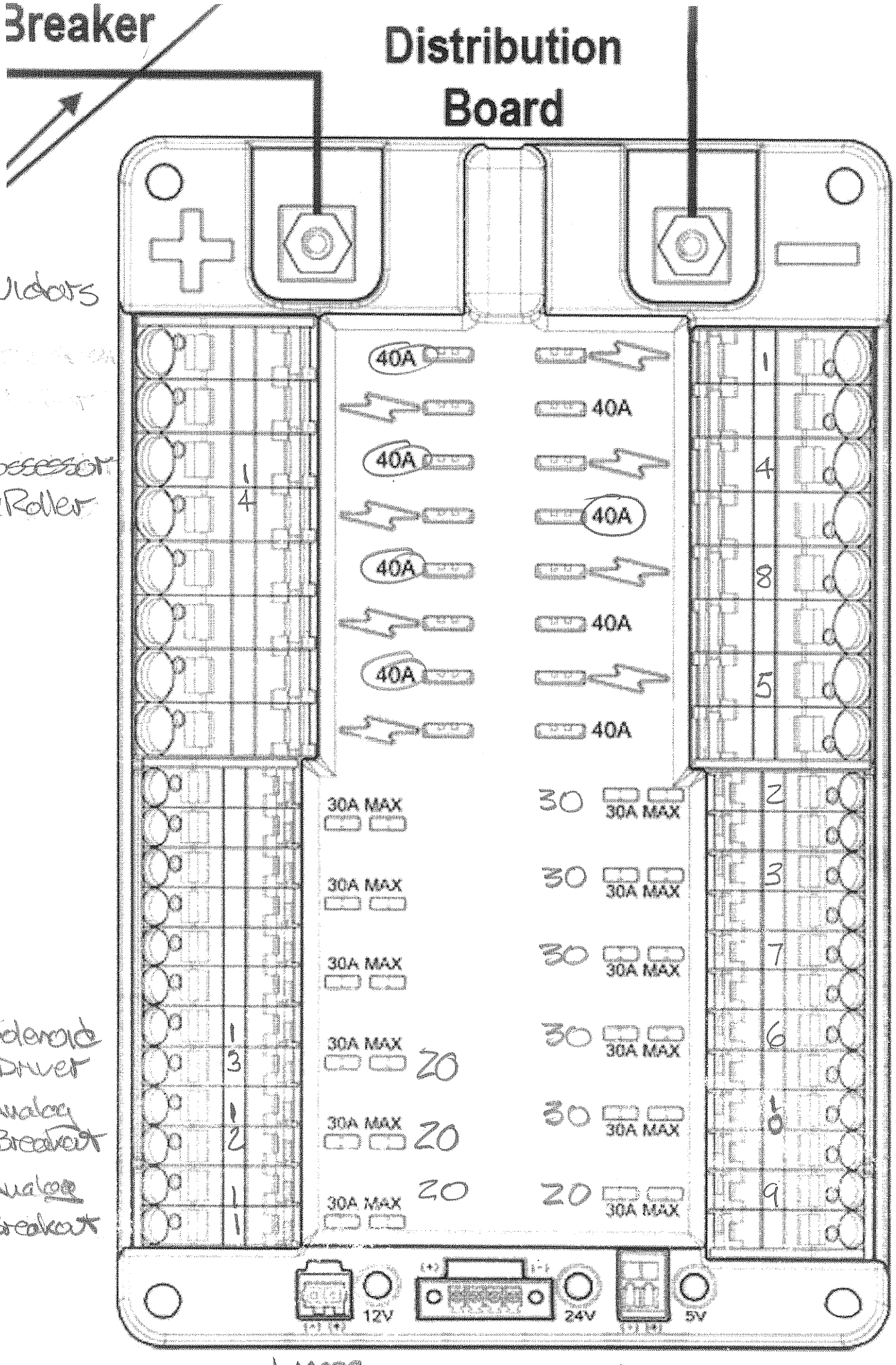


Vidots

Possessor Roller

Solenoid Driver

Analog Breakout

Analog Breakout

Jags

Left Rear Drive

Left Front Drive

Right Front Drive

Right Rear Drive

Left Rear Steering

Left Front Steering

Right Front Steering

Right Rear Steering

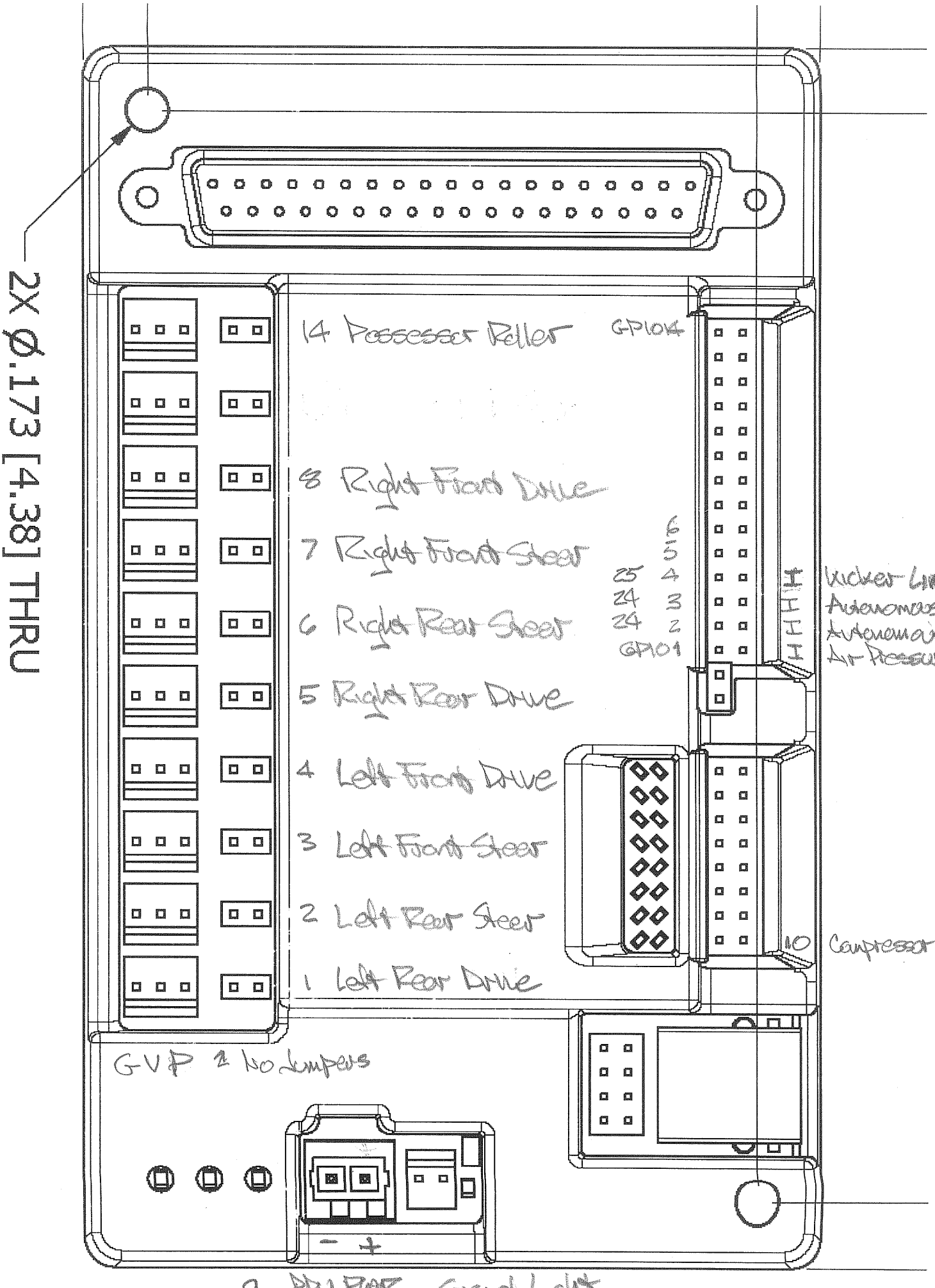
Compressor Spike

Digital Sidecar

Accessory Port

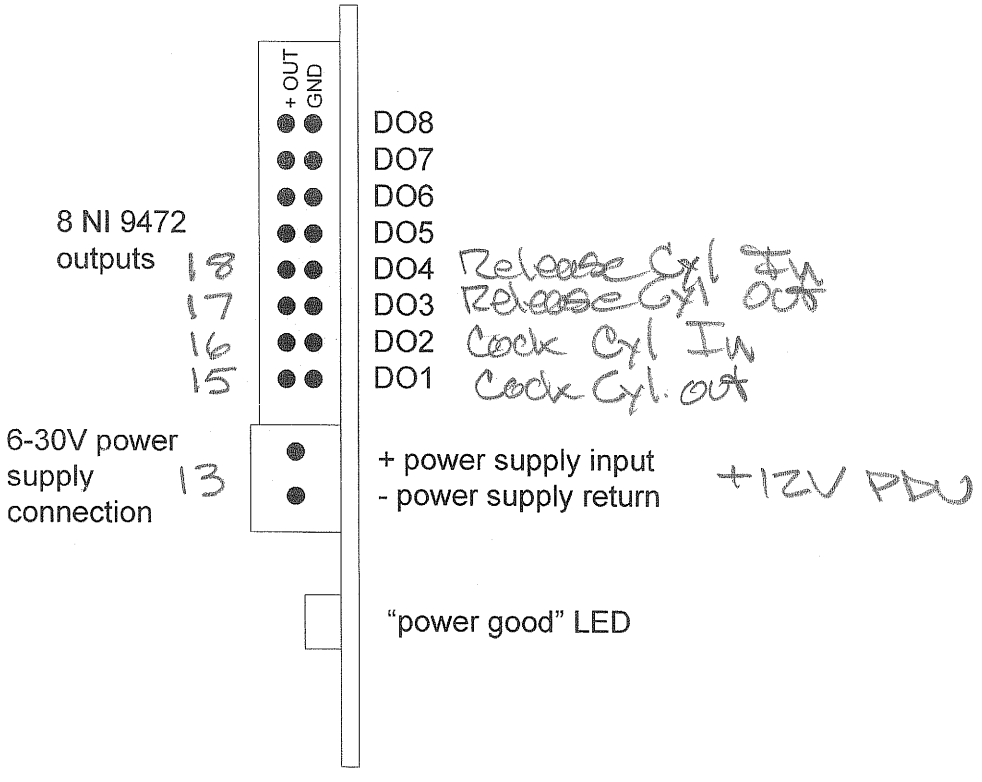
cRIO 19

Camera 20


2X Ø.173 [4.38] THRU
14 Possessor Roller
GP104
8 Right Front Drive
7 Right Front Steer
6 Right Rear Steer
5 Right Rear Drive
4 Left Front Drive
3 Left Front Steer
2 Left Rear Steer
1 Left Rear Drive
6
5
25 4
24 3
24 2
GP101
Kicker Limit
Autonomous SW
Autonomous SW
Air Pressure
10 Compressor Sp.
GVP 2 No Jumpers
9 PDU Rear Signal Light

3.6.1.2 Pinout

Solenoid Breakout – side view of connectors



PCB Reference Designator	Name	Description
J1	DB25	Mates to NI9472 (with optional cable)
J2	Digital Outputs	Mates to 2 conductor cables
J3	Power In	734-162 mates with 734-102
D1	Power LED	Lights when power is properly applied

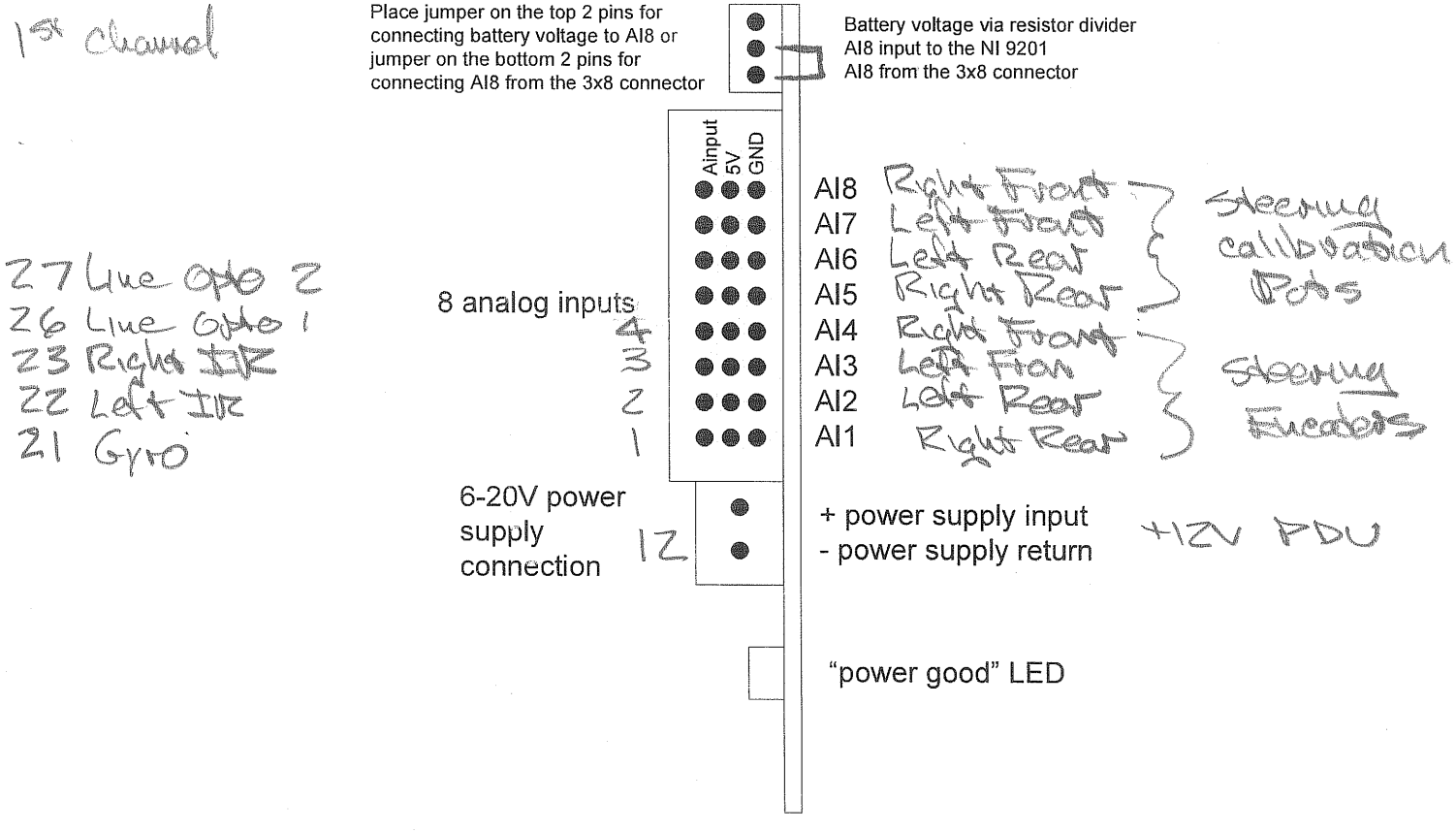
3.6.2 Typical Application

** Always refer to FIRST rules for using this module in competition robots. The following sequence describes an example application that may not fully comply with FIRST rules.

2nd Channel Analog

Analog Breakout – side view of connectors

1st channel



27 Line Gpio 2
26 Line Gpio 1
23 Right IR
22 Left IR
21 Gyro

PCB Reference Designator	Name	Description
J1	DB25	Mates to NI 9201 (with optional cable)
J2	Analog Input	Mates to 8 3-conductor cables
J3	Power Input	734-162 mates to 734-102 Supplies power to the module
J4	AI8 Select	Accepts 2 conductor Shunt Selects what AI8 is connected to.
D2	Power LED	Lit when power is applied