ReDAC **Input/Output Module** (RED-200-IO)

- USB connection to computer
- Standard DB25 connection to hardware
- 23 Analog Inputs
- 46 Digital Inputs
- 24 Digital Outputs
- Supported by P.I. Engineering SDK

The ***ReDAC I/O Module*** simplifies connection of input hardware to any USB capable Operating System. Input and output ports use standard DB25 connectors. Connection to the computer is via standard USB type A plug.

Software developers and hobbyists will appreciate the tools our Software Development Kit provides for converting 46 switch closures (signal to ground) and 23 variable levels (0-5 VDC) to data input for your software. The 24 digital outputs (0 or 5VDC) can be used to turn on LEDs, trigger optic relays, or actuate any low current device.

Specifications

Operating System	Any OS supporting USB HID
Included Software	P.I. Engineering SDK for Windows Limited support for Mac OS X
Digital Input	(46) Signal to Ground Wire length < 2,740 ft. (835 m)
Analog Input	(23) 0-5VDC Recommended potentiometer: 10K – 50K center-tap
Digital Output	(24) 0 or 5VDC, 1K Ohm Impedance (5mA @ 5VDC)
Input Connector	(3) DB25 female
Output Connector	DB25 female
Computer Connection	USB “A” plug (included) Cable length: 10’ (3 m)
Case Dimensions	4.56" x 1.7" x 7.1", (51 mm x44mm x 180mm)
Weight	1.42 lbs. (0.62 kg)
Power Source	USB port power, nominal voltage = 5VDC
Power Consumption	Base Unit: Low power USB device, less than 15mA @ 5VDC Digital Outputs: Up to 5mA @ 5VDC for each output used

Specifications subject to change without notice

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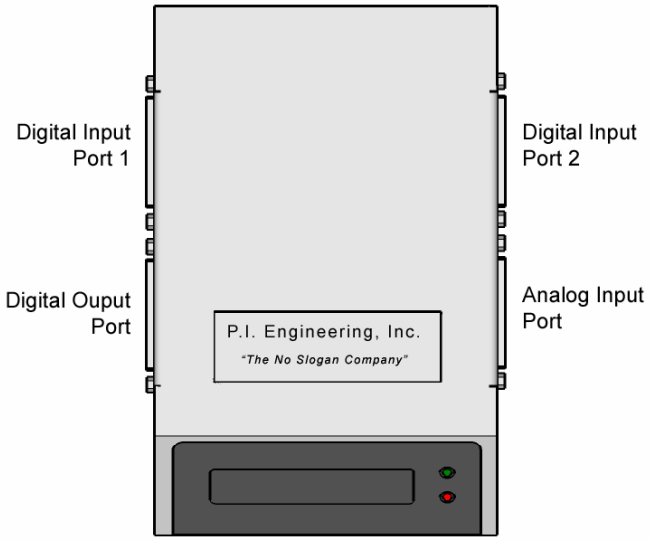
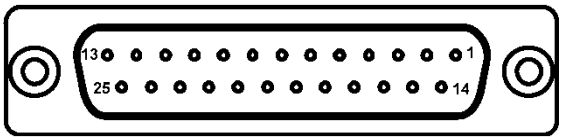
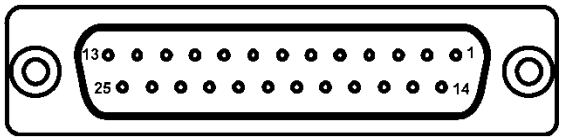
ReDAC Input/Output Module Pinout





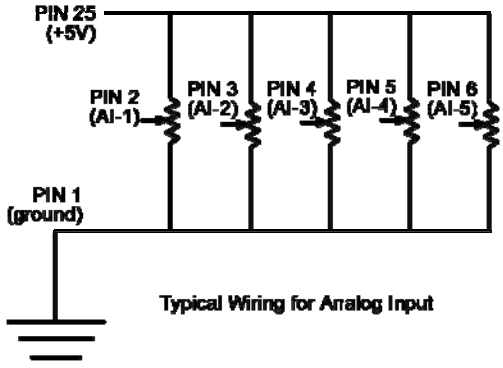
Digital Input Port1	
PIN #	Definition
1	Ground
2	Digital In 1
3	Digital In 2
4	Digital In 3
5	Digital In 4
6	Digital In 5
7	Digital In 6
8	Digital In 7
9	Digital In 8
10	Digital In 9
11	Digital In 10
12	Digital In 11
13	Digital In 12
14	Digital In 13
15	Digital In 14
16	Digital In 15
17	Digital In 16
18	Digital In 17
19	Digital In 18
20	Digital In 19
21	Digital In 20
22	Digital In 21
23	Digital In 22
24	Digital In 23
25	+ 5VDC 1K Ohm Impedance

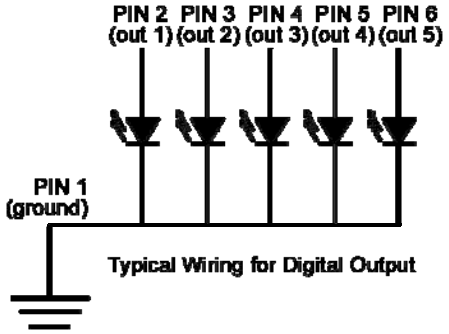
Digital Input 2	
PIN #	Definition
1	Ground
2	Digital In 24
3	Digital In 25
4	Digital In 26
5	Digital In 27
6	Digital In 28
7	Digital In 29
8	Digital In 30
9	Digital In 31
10	Digital In 32
11	Digital In 33
12	Digital In 34
13	Digital In 35
14	Digital In 36
15	Digital In 37
16	Digital In 38
17	Digital In 39
18	Digital In 40
19	Digital In 41
20	Digital In 42
21	Digital In 43
22	Digital In 44
23	Digital In 45
24	Digital In 46
25	+ 5VDC 1K Ohm Impedance

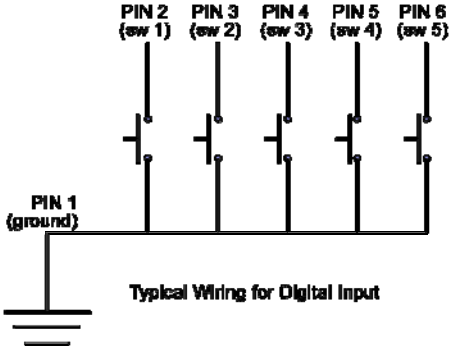


Analog Input Port	
PIN #	Definition
1	Ground
2	Analog In 1
3	Analog In 2
4	Analog In 3
5	Analog In 4
6	Analog In 5
7	Analog In 6
8	Analog In 7
9	Analog In 8
10	Analog In 9
11	Analog In 10
12	Analog In 11
13	Analog In 12
14	Analog In 13
15	Analog In 14
16	Analog In 15
17	Analog In 16
18	Analog In 17
19	Analog In 18
20	Analog In 19
21	Analog In 20
22	Analog In 21
23	Analog In 22
24	Analog In 23
25	+ 5VDC 1K Ohm Impedance

Digital Output Port	
PIN #	Definition
1	Ground
2	Digital Out 1
3	Digital Out 2
4	Digital Out 3
5	Digital Out 4
6	Digital Out 5
7	Digital Out 6
8	Digital Out 7
9	Digital Out 8
10	Digital Out 9
11	Digital Out 10
12	Digital Out 11
13	Digital Out 12
14	Digital Out 13
15	Digital Out 14
16	Digital Out 15
17	Digital Out 16
18	Digital Out 17
19	Digital Out 18
20	Digital Out 19
21	Digital Out 20
22	Digital Out 21
23	Digital Out 22
24	Digital Out 23
25	Digital Out 24







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