

Extra Low Noise | High Accuracy



DESCRIPTION

The **PCI-836** is a PCI-bus Digital I/O board based on the industry standard 82C55 PPI chip. It is available in two version, PCI-836A and PCI-836C. The PCI-836C supports a 16-bit high current port, an optically isolated line and 3x interrupt sources.

FEATURES

- 24 Channel digital inputs/outputs (3-ports)
- 16 Channel high current outputs (C-version)
- 1 Channel opto-isolated external trigger input (C-version)
- 3 interrupt sources (C-version)
- 82C55 compatible digital input/output interface
- Linux OS Support
- WaveView for Windows Data Acquisition & Logging Software
- Labview, Testpoint and VEE Pro Drivers
- PCI-bus revision 2.2 compliant
- Windows98/ME/2000/XP OS Support (NT on request)

Specifications

DIGITAL I/O - PPI

Number of I/O Lines:	24, 3x 8-bit (TTL)
Logic Levels:	Input Low Voltage: -0.5V to 0.8V
	Input High Voltage: 2.0V to 5.0V
	Output High Voltage Min: 2.4V
	Output Low Voltage Max: 0.45V
	Maximum Output Current: 2mA

HIGH CURRENT PORT

Number of Output Lines:	16 (TTL)
Logic Levels:	Output High Voltage: 5V
	Output Low Voltage: 0V
	Maximum Output Current: 20mA

OPTO-ISOLATED INPUT CHARACTERISTICS (C-Version)

Number of Lines:	1 (Analog/TTL)
Logic Levels:	O/P High Voltage - Logic1: 3.1V to 28V
	O/P Low Voltage - Logic0: 0V to 3V
	On Current: 20mA
	Max Forward Current: 50mA

EXTERNAL INTERFACE

Connector - External:	DB37 Male
Connector - Internal:	IDC20 Male (C-Version)

DIMENSIONS

POWER REQUIREMENTS	+5V Internal: 300mA typical
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DB-37M

PC3	20	1	+12V_FUSED
PC2	21	2	+5V_FUSED
PC1	22	3	GND
PC0	23	4	PA0
PC4	24	5	PA1
PC5	25	6	PA2
PC6	26	7	PA3
PC7	27	8	PA4
GND	28	9	PA5
GND	29	10	PA6
GND	30	11	PA7
GND	31	12	PB0
GND	32	13	PB1
EXT TRIG	33	14	PB2
EXTTRIGRET	34	15	PB3
-12V_FUSED	35	16	PB4
N/C	36	17	PB5
DGND	37	18	PB6
	19		PB7

IDC-20M

DO0	1	2	DO1
DO2	3	4	DO3
DO4	5	6	DO5
DO6	7	8	DO7
DO8	9	10	DO9
DO10	11	12	DO11
DO12	13	14	DO13
DO14	15	16	DO15
DGND	17	18	GND
+5V_FUSED	19	20	+5V_FUSED

DB-25M (Internal Cable)

DO1	14	1	DO0
DO3	15	2	DO2
DO5	16	3	DO4
DO7	17	4	DO6
DO9	18	5	DO8
DO11	19	6	DO10
DO13	20	7	DO12
DO15	21	8	DO14
GND	22	9	GND
+5V_FUSED	23	10	+5V_FUSED
NC	24	11	NC
NC	25	12	NC
		13	NC



Supplied with Internal Cable for Digital I/O (IDC20 to DB25)

Ordering Information

Supplied with EDR Enhanced Software and Internal Cable (with C-Version) for Digital I/O (converts from IDC20 to DB25)

PCI-836A	24 Channel Digital I/O Board
PCI-836C	40 Channel Digital I/O Board

Optional Accessories

OPTION 1:

ADPT-2526	DB25 (F) & IDC26 (M) to 27way Screw Terminal Adaptor
DB25M/F	DB25 (M) to DB25 (F) Screened Cable

OPTION 2:

ADPT-3740	DB37 (M) & IDC40 (M) to 41way Screw Terminal Adaptor
DB37F/F	DB37 (F) to DB37 (F) Screened Cable

Optional Accessories Diagram

