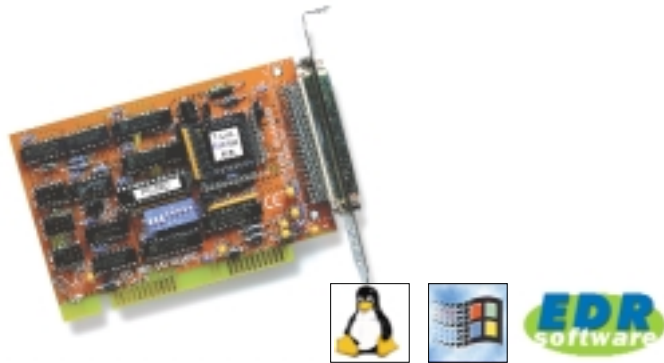


ISA PC-36C

EDR Software | User Manual



The PC-36C 24 line DIO Board uses an industry standard fast 8255 PPI to provide 24 DIO lines arranged in three 8bit ports: Port A, Port B and Port C. Wait-state generation has been incorporated in the PC-36C in order to allow operation fast computers with fast Bus Clock speeds.

An additional signal-conditioned external interrupt line is available. This allows pulses of up to 24V to be fed into the line. It can be used as an external trigger OR an automatic startup/shutdown trigger. A jumper enables the external trigger line to be commoned to digital ground or be completely isolated.

Features

- ◆ 24 TTL compatible digital I/O Lines
- ◆ I/O Frequency response up to 10MHz
- ◆ Ports can be programmed as inputs and outputs
- ◆ Optical Isolated External Interrupt line available for a variety of uses like emergency shutdown of motors

24 Channel Digital I/O

Specifications

DIGITAL I/O

No of I/O Lines:	24
Logic Input & Output Levels:	
Logic 0:	-0.3V (min): 0.8V (max)
Logic 1:	2.2V (min): 5.3V (max)
O/P Current:	1.7mA (Low State) 200mA (High State)

Interrupt Support:	Via Port C0 and C3
PPI Modes Supported:	Mode 0, 1 and 2

External Trigger Input

Frequency Response:	10kHz
Logic Levels:	0 to 2.9V: Logic 0 3.1V to 24V: Logic 1
Isolation Voltage:	450Vrms
Max Reverse Voltage:	50V
Input Current:	Continuous: 30mA Peak: 1A

BUS Interface

Address selection:	0 to 7FFh
Interrupt selection:	IRQ2 to IRQ15
Word size:	8bits
I/O address location:	8 bytes
Wait State Selection:	0, 1, 2, 4, 8
Relative Humidity:	0% to 90% (non-condensing)
Operating Temp:	0 to 70°C
Power requirements:	+5V 100mA typ
Board Dimensions:	124mm x 85mm

Ordering Information

Supplied with EDR Software

PC-36C Enhanced 24 Channel Digital I/O Board with Isolation External IRQ
View connector pinouts in Reference Section

Optional Accessories

Refer to System Diagram in Reference Section

ADPT-3740 via **DB37FF** (Digital I/O)