



Features

- ◆ 192 TTL-compatible digital I/O lines
- ◆ Occupies only 1 PC slot
- ◆ Uses eight 8255 PPIs, each with 3 bits ports
- ◆ 2-wire handshaking
- ◆ Ideal solution when you need a large number of digital I/O lines
- ◆ The 8 on-board 8255 PPIs provide all of the standard DIO features as described for the PC-36 and the PC-14
- ◆ High-speed 16-bit data transfers
- ◆ A dedicated external interrupt line
- ◆ Onboard wait-state generation

Description

The PC-192A is an enhanced parallel DIO interface board for the IBM PC/AT, 486, Pentium, ISA and EISA computers. It provides 192 DIO channels built around industry-standard 8255 type Programmable Peripheral Interface (PPI) adaptor IC.

Ordering Information

Supplied with EDR Software and 8x Internal Cable (IDC10 to DB9) or (IDC10 to DB25)

PC-192A 192 Line Digital I/O Board

Optional Accessories

Up to x8:

ADPT-5050 DB50 (M) & IDC50 (M) to 51way Screw Terminal

IDC50 (Digital I/O) 50way Ribbon Cable

Specifications

Digital I/O

Number of channels:	192 in 24x 8bit digital ports (TTL Compatible)	
Input Voltage:	Logic Low: 0.5V to 0.8V	Logic High: 2V to 5V
Output Voltage:	Logic 0: 0.45V max	Logic 1: 2.4V min
Output Current:	Low State: 1.7mA max	High State: -200nA min
Max drive current:	-4.0mA from ports types B and C	
Max Power per 8255:	1 W max from all three ports	
Max TTL I/P voltage:	6.5V	
Min TTL I/P voltage:	-0.5V	

I/O Connector

Digital I/O Connector:	50 way male IDC
Max +5V @ connector:	250mA from +5V typ

Computer Host Interface

Base Address:	Switchable from 0 to 1FD0h on 64 byte boundaries
Bus Type:	XT, AT, ISA or EISA
I/O Wait States:	0, 2, 4, or 8 Jumper selectable
Number of Registers:	64x 8bit
Word size:	8 bits
Word transfer Rate:	10MHz max (depends on computer and program)
Interrupts:	Jumper selectable from IRQ2, 3, 4, 7, 10, 11, 12, 15

Environmental

Operating temperature:	0°C to 55°C
Storage temperature:	-55°C to 150°C
Relative humidity:	5% to 90% non-condensing
PC Board size:	200mm x 103mm

Power Supply Req

+5V Supply: 1.6A typ (excl +5V power for User Interfacing)

IDC-50M

PC7	1	2	DGND
PC6	3	4	DGND
PC5	5	6	DGND
PC4	7	8	DGND
PC3	9	10	DGND
PC2	11	12	DGND
PC1	13	14	DGND
PC0	15	16	DGND
PB7	17	18	DGND
PB6	19	20	DGND
PB5	21	22	DGND
PB4	23	24	DGND
PB3	25	26	DGND
PB2	27	28	DGND
PB1	29	30	DGND
PB0	31	32	DGND
PA7	33	34	DGND
PA6	35	36	DGND
PA5	37	38	DGND
PA4	39	40	DGND
PA3	41	42	DGND
PA2	43	44	DGND
PA1	45	46	DGND
PA0	47	48	DGND
+5V	49	50	DGND



Supplied with Internal Cable (IDC10 to DB9) or (IDC10 to DB25)

System Diagram

