

7276  
1280

INSTALLED 2-1-94  
(TO FIX PRINTER PROBLEM)  
IN SERVER

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UN - 1072

IDE I/O Card

User's Manual

Please read this manual before installing this card.  
Please retain this manual for future reference.

Disclaimer: Information in this manual is subject to change without notice.  
We assume no responsibility for any errors contain herein.

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## INTRODUCTION

The super I/O card extends the data I/O functions of the PC/AT or compatible computer with its two serial ports, one parallel port, one game port, one floppy disk drive controller and one embedded hard disk drive adapter.

The clear, well-illustrated instructions in this manual ensure that even if the user is a newcomer to the computer world, the system can be installed and running with a minimum of effort.

## Features

- Compatible with IBM\* PC AT/XT disk drive systems.
- Support for up to two 3.5" 720K/1.44M or 5.25" 360K/1.2M floppy disk drive.
- IBM PC system address decoder.
- Support for up to two embedded hard disk drives (IDE AT bus).
- Fully programmable serial-interface characteristics:
  - 5-, 6-, 7- or 8-bit character
  - even, odd, or no parity bit generation and detection
  - 1-, 1.5-, or 2-stop-bit generation
- Programmable baud rate generator allowing division of any input clock by 1 to  $(2^{16}-1)$  and generating the internal 16X clock.
- Compatible with IBM printer port.
- Game port support

\* IBM is the trademark of International Business Machines Corp.

## CARD LAYOUT

The illustration below will familiarize the user with the layout of the super I/O card and its on-board ports.

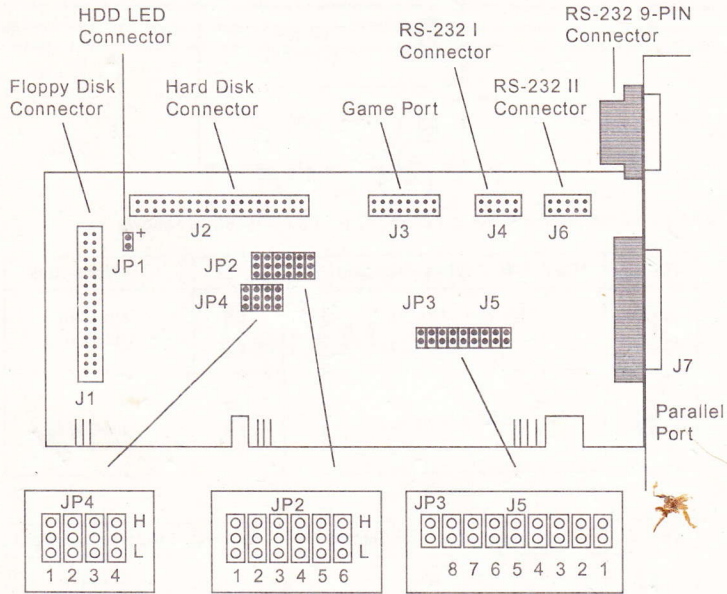





Fig 1 I/O Card Layout




## JUMPERS AND CONNECTORS

The following describes the jumpers and connectors of the super I/O card.

**J1** -- This is a 34-pin FDC connector.

- J2 -- This is a 40-pin IDE HDD connector.
- J3 -- This is a 16-pin Joystick connector.
- J4 -- This is a 10-pin RS232-I connector.
- J5 -- This jumper selects I/O port IRQ signal to HOST as follows:

J5 (1-3)	Serial port I
 3 2 1	IRQ 4 (default)
 3 2 1	IRQ 3
 3 2 1	IRQ 5

J5 (4-6)	Serial port II
 6 5 4	IRQ 3 (default)
 6 5 4	IRQ 4
 6 5 4	IRQ 5



J5 (7-8)	Parallel printer port
 8 7	IRQ 7 (default)
 8 7	IRQ 5

Fig. 2 J5 I/O Port IRQ Signals

- J6 -- This is a 10-pin RS232-II connector.
- J7 -- This is a 25-pin D-type printer connector.



JP1 -- This jumper is connected to an external LED activity indicator.



JP2 -- This jumper selects I/O port addresses as follows:

JP2 (1-2)	Serial port I	JP2 (3-4)	Serial port II
	COM 4 (2E8h)		COM 3 (3E8h)
	COM 1 (3F8h) (default)		COM 2 (2F8h) (default)
	COM 3 (3E8h)		COM 4 (2E8h)
	disabled		disabled





JP2 (5-6)	Printer port
	LPT 3 (3BCh)
	LPT 2 (278h)
	LPT1 (378h)
	disabled

Fig 3 JP2 I/O Port Addresses

**JP3 --** It is shorted for enabling the printer port to be an output only port. If in case of open, it is for enabling the printer port to be an input or output port. In this case, direction is controlled by printer control register as follows:

JP3	Printer port function
	output (default)
	input

**JP4 --** This jumper selects FDC/HDC port addresses as follows:

JP4-1	Hard disk address selection	JP4-2	IDE Hard disk
	3F6-3F7, 1F0-1F7 (default)		enabled (default)
	376-377, 170-177		disabled





JP4-3	Floppy disk address selection	JP4-4	Floppy disk drive
	3F0-3F7 (default)		enabled (default)
	370-377		disabled.

Fig 4 JP4 FDC/HDC Port Addresses