AT MULTI I/O PLUS IDE & FDD CONTROLLER

MODEL : CA8962

User's Manual

INTRODUCTION

The Super I/O card is the most advanced controller card built-in with both AT I/O and IDE /FDD functions.- It offers enhanced performance and compact in size while retaining a high degree of compatibility with your IBM PC/AT and compatible systems.

The Super I/O card is equipped with 2 serial ports, a parallel port, a bus mouse port, a game port, an IDE hard disk controller and a floppy disk controller. All of the ports can be enabled or disabled according to your system requirements.

With Super I/O card you can save a slot and shorten the installation time for setting up of your system.

FEATURES

AT I/O PORTION

- □ Two asynchronous serial ports JP3 & JP4 which can be configured as COM1 / COM3 and COM2 / COM4 respectively
- □ One parallel printer port CN2 which can be selected as LPT1 (378) or LPT2 (278)
- □ One bus mouse port JP10
- □ One game port CN1

IDE / FDD PORTION

- Supports up to two "AT BUS" (IDE) hard disk drives with 16 bits data transfer interface
- \square Supports up to two floppy disk drives of any combination of 360K, 1 2M $\,$ 5.25" and 720K, 1 44M 3.5"

CHECKLIST

Your Super I/O card controller card contains the following:

- □ The Super I/O card
- User's Manual
- □ Two 10 to 9/25 ways interface cables for CA8392:COM1 & COM2
- □ 34 ways flat cable for FDD
- □ 40 ways flat cable for IDE

INSTALLATION PROCEDURE

- Switch off all power of your system including any connected periperals.
- □ Remove the cover of your system and the screw of a bracket from any 16 bits empty slot.
- □ Carefully set the jumper of Super I/O card according to your system requirements.
- □ Plug the Super I/O card into the empty slot as mentioned at above and line up the adapter with the screw hole in the rear plate of your system.
- □ Screw the bracket to fix the Super I/O card and connect the signal cables with the adapter and the external devices to be connected.
- □ Replace your system cover and the installation procedure is now completed.

JUMPER SETTING



JP9 - INTERRUPT LEVEL FOR PRINTER PORT

Select

- 2 3 IRQ7 for printer port (default for LPT1)
- 1 2 IRQ5 for printer port (default for LPT2)

JP8 - INTERRUPT LEVEL FOR SERIAL PORTS

- A SIDE Select interrupt level for COM1/COM3 (default IRQ4)
- B SIDE Select interrupt level for COM2/COM4 (default IRQ3)

	A	в
IRQ3		
IRQ4		
IRQ5		
IRQ2		_

JP7- INTERRUPT LEVEL FOR BUS MOUSE





PIN ASSIGNMENT OF PORTS

PARALLEL PRINTER PORT (CN2)

LINE NAME	DB-25 (FEMALE) CONNECTOR PIN	IBM MATRIX PRINTER
STROBE (-)	1	1
D0	2	2
DI	3	3
D2	4	4
D3	5	5
D4	6	6
D5	7	7
D6	8	8
D7	9	9
ACK (-)	10	10
BUSY	11	11
PE	12	12
SLCT	13	13
AUTOFD (-)	14	14
ERROR (-)	15	32
INIT (-)	16	31
SLCT IN (-)	17	36
GROUND	18-25	16, 19-30, 33
NC		15,18,34

SERIAL PORT (JP3 & JP4)

SIGNAL NAME	PIN NUMBER	RS-232C INTER- FACE PIN NUMBER
CN (IN)	1	8
RX (IN)	2	3
TX (OUT)	3	2
DTR (OUT)	4	20
SG	5	
DSR (IN)	6	6
RTS (OUT)	7	4
CTS (IN)	8	5
RI (IN)	9	22

GAME PORT (CN1)

PIN NUMBER	LINE NAME
2	BUTTON 4
3	POSITION 0
6	POSITION 1
7	BUTTON 5
1, 8, 9, 15	VCC
4,5,12	GROUND
10,11,13,14	NC

BUS MOUSE PORT (JP10)

PIN NUMBER	LINE NAME	
1	XDA	
2	VCC	
3	XDB	
4	YDA	
5	YDB	
6	LB	
7	MB	
8	RB	
9	GROUND	
10	NC	

FLOPPY DISK CONTROLLER (JP5)

IDE HARD	DISK	CONTRO	LLER	(JP1)

PIN	SIGNAL NAME	
2	REDUCED WRITE	
4	UNUSED	
6	UNUSED	
8	INDEX	
10	MOTOR ENABLE 1	
12	DRIVE SELECT 0	
14	DRIVE SELECT 1	
16	MOTOR ENABLE 0	
18	DIRECTION SELECT	
20	STEP	
22	WRITE DATA	
24	WRITE ENABLE	
26	TRACK 0	
28	WRITE PROTECT	
30	READ DATA	
32	HEAD 1 SELECT	
34	DISKETTE CHANGE '	
1, 3, 533	GROUND	

PIN	SIGNAL NAME	
1	RESET	
17	HD0	
15	HD1	
13	HD2	
11	HD3	
9	HD4	
7	HD5	
5	HD6	
3	HD7	
4	HD8	
6	HD9	
8	HD10	
10	HD11	
12	HD12	
14	HD13	
16	HD14	
18	HD15	
23	HIOW	
25	HIOR	
27	IOCHRDY	
28	HALE	
31	IROBUS	
32	IOCS16	
35	HAO	
33	HAI	
36	HA2	
37	HCSO	
38	HCSI	
39	SIVACT	
20, 29, 34	UNUSED	
2,19, 21, 22,	GROUND	
24, 26, 30, 40	GROUND	
_ , _ , 50, 10	GROUND	

NOTES

JP2 is the hard disk select LED.

The IDE (AT BUS) hard disk controller can only interface to the IDE type hard disk. Connecting the ST412/506 hard disk to the IDE hard disk controller could result in damage to the hard disk or system. Check your system manual to ensure the system has an IDE hard disk drive before using the IDE hard disk controller.

BLOCK DIAGRAM OF SUPER I/O CARD



Remark:

IBM PC/AT is registered trademark of International Business Machines Corporation.

The above information represents the best of our knowledge. We may have erroneous information and we reserve the right to change the specification without prior notice

FCC WARNING

This equipment generates, uses, and can radiate radio frequency energy. If not installed and use in accordance with the instructions in this manual, it may cause interference to radio communications. It has been tested and found to comply with the limits for a class B computing device pursuant to subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a residential environment.

If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- □ Relocate the equipment with respect to the receiver
- Move the equipment away from the receiver
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits

If necessary, the user should consult the dealer or an experienced radio/television technican for additional suggestions. The user may find the following booklet prepared by the Federal communications helpful: How to identify and resolve radio-TV interference problems. This booklet is available from the U.S. Government printing office, Washington DV 20402, stock number 004-000-00345-4.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. It is the responsibility of the user to correct such interference.