

**Specification :**

- One Printer Port
- 2 Serial Port : COM1/COM3 and COM2/COM4
- 1 Game Port
- Selectable Printer Port : LPT1, LPT2
- Selectable IRQ signals for Serial Ports and Printer Port
- IDE Controller Interface for two hard disks
- Floppy Disk Controller for two floppy disk drives ( Support 360Kb, 1.2Mb, 720Kb and 1.44Mb Floppy Drive )
- Support Secondary Floppy Disk and Hard Disk
- One " Hard Disk Busy " LED Connector
- All function can be enabled and disabled

**Connector Name :**

- Asyn1 : Serial 1 Connector
- Asyn2 : Serial 2 Connector
- Floppy : Floppy Disk Connector
- IDE : IDE Hard Disk Connector
- Game : Game Port Connector
- Printer : Printer Port Connector
- LED : " Hard Disk Busy " LED Connector
- COM1 : IRQ3-5 and IRQ7,9 Select Jumpers
- COM2 : IRQ3-5 and IRQ7,9 Select Jumpers
- PTR : IRQ3-5 and IRQ7,9 Select Jumpers

**Jumpers Setting :**

JMP	JUMPERS DESCRIPTION	POSITION	
		1-2	2-3
JP1	FDD PORT SELECT	* PRIMARY (3F0 - 3F7)	* SECONDARY (370 - 377)
JP2	AT IDE PORT SELECT	* PRIMARY (1F0 - 1F7)	* SECONDARY (170 - 177)
JP3	PRINTER PORT SELECT	LPT1 ( 378 - 37F )	LPT2 ( 278 - 27F )
JP4	ASYN1 ENABLE / DISABLE	ENABLE	DISABLE
JP5	FDD ENABLE / DISABLE	ENABLE	DISABLE
JP6	AT IDE ENABLE / DISABLE	ENABLE	DISABLE
JP7	ASYNC 2 PORT SELECT	COM2 ( 2F8 - 2FF )	COM4 ( 2E8 - 2EF )
JP8	ASYNC 1 PORT SELECT	COM1 ( 3F8 - 3FF )	COM3 ( 3E8 - 3EF )
JP9	AYSNC2 ENABLE/DISABLE	ENABLE	DISABLE
JP10	PRT ENABLE/DISABLE	ENABLE	DISABLE
JP11	GAME PORT	DISABLE	ENABLE

*Jumper Setting Table*

Default factory Setting : JP1-JP10 are set to 1-2 position & JP11 is set to 2-3 position

**Interrupt Signals Setting ( IRQ ) :**

PORTS	IRQ3	IRQ4	IRQ5	IRQ7	IRQ9
COM1/COM3		DEFAULT			
COM2/COM4	DEFAULT				
PTR (PRINTER)				DEFAULT	

Short the Jumper to select the desired interrupt numbers ( IRQ ) for Serial & Printer Port

*Note : default is the factory setting*

*Warning : Not more than one I/O port use the same IRQ signal*

**Install Hard Disk and Floppy Drives :**

**Warning :** Turn off the Power Supply before start installation

1. Connect 40 pins flat cable connector into " IDE " connector on the card  
( Make sure that the direction is correct : red wire is pin one of header )
2. Connect the other end to hard drive in correct direction
3. Connect the power cable to hard drive's power socket
4. Connect the hard disk indicator socket into " LED " jumper
5. Connect 34 pins flat cable connector into " Floppy " Connector
6. Connect the other ends ( 34 pins edge connector ) to floppy drive  
( Note : Twisted end is for drive A and the second one is for drive B )
7. Connect the power cable to floppy drives

**NOTE FOR INSTALL TWO HARD DRIVES**

Please refer to HARD DISK MANUAL for setting FIRST and SECOND drive !!!  
Note : a 3 headers 40 pin flat cable is necessary to install 2 hard disk drives

**SETUP CMOS FOR DISK TYPE :**

1. Use BIOS CMOS SETUP or AT DIAGNOSTIC program to set the correct floppy and hard drive type
2. Physical and logical formatting of hard disk must be done for new drive.  
( For detail method, please consult the hard drive supplier )

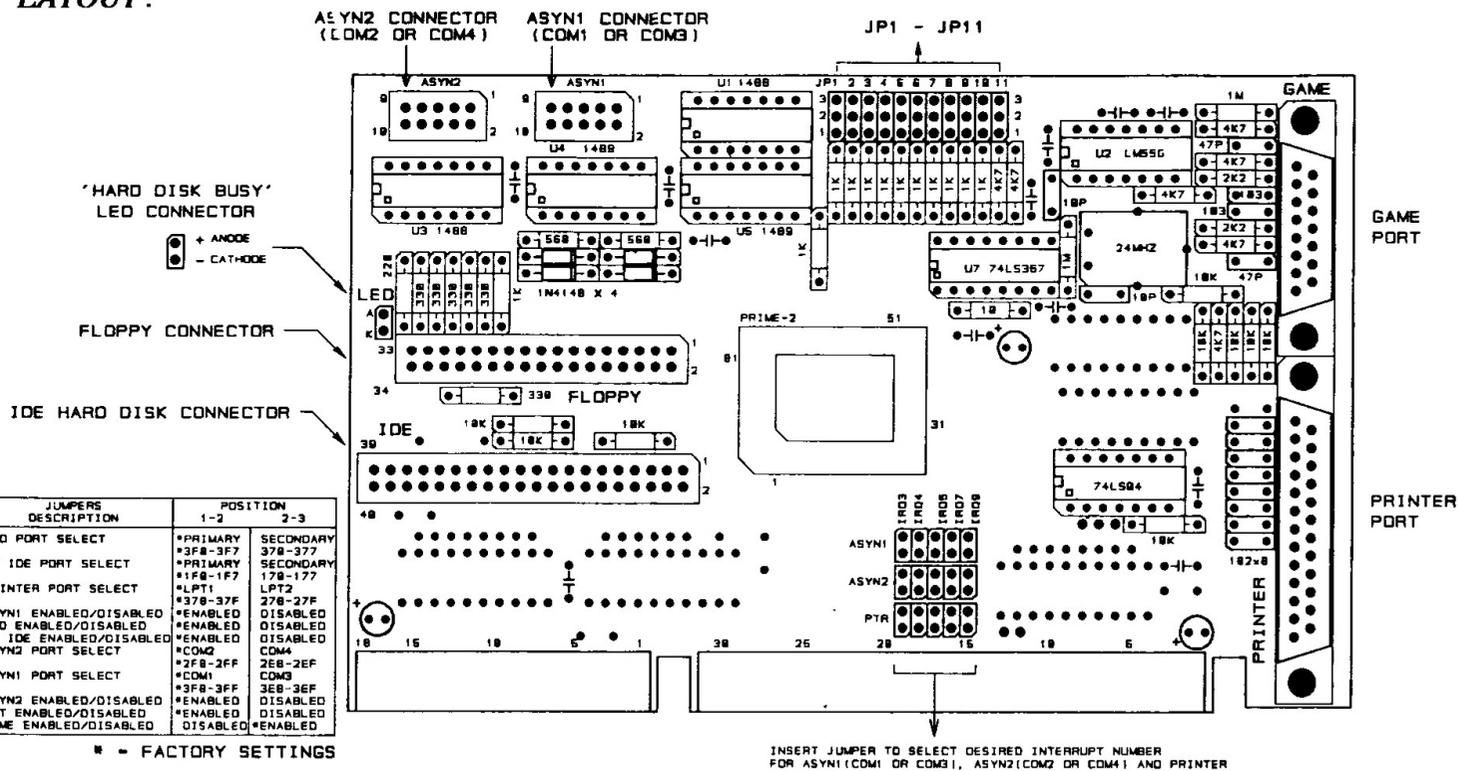
Note : incorrect drive type setting will report a message of " driver error " or / and may damage the drive

**LOCATION OF PORTS :**

Game port	: 200H - 207H
Printer port	: LPT1 : 3BCH : LPT2 : 378H
Asyn 1 port	: COM1 : 3F8H - 3FFH : COM3 : 3E8H - 3EFH
Asyn 2 port	: COM2 : 2F8H - 2FFH : COM4 : 2E8H - 2EFH
PRIMARY	: 1F0H - 1F7H
SECONDARY	: 170H - 177H
PRIMARY FLOPPY DISK	: 3F0 - 3F7
SECONDARY FLOPPY DISK	: 370 - 377

**LAYOUT:**

# Operating Instructions



JMP	JUMPERS DESCRIPTION	POSITION	
		1-2	2-3
JP1	FDD PORT SELECT	*PRIMARY *3F8-3F7	SECONDARY 378-377
JP2	AT IDE PORT SELECT	*PRIMARY *1F8-1F7	SECONDARY 178-177
JP3	PRINTER PORT SELECT	*LPT1 *378-37F	LPT2 278-27F
JP4	ASYN1 ENABLED/DISABLED	*ENABLED	DISABLED
JP6	FDD ENABLED/DISABLED	*ENABLED	DISABLED
JP8	AT IDE ENABLED/DISABLED	*ENABLED	DISABLED
JP7	ASYN2 PORT SELECT	*COM2 *2F8-2FF	COM4 2E8-2EF
JP8	ASYN1 PORT SELECT	*COM1 *3F8-3FF	COM3 3E8-3EF
JP9	ASYN2 ENABLED/DISABLED	*ENABLED	DISABLED
JP10	PRT ENABLED/DISABLED	*ENABLED	DISABLED
JP11	GAME ENABLED/DISABLED	*ENABLED	DISABLED

\* - FACTORY SETTINGS

INSERT JUMPER TO SELECT DESIRED INTERRUPT NUMBER FOR ASYN1 (COM1 OR COM3), ASYN2 (COM2 OR COM4) AND PRINTER



IDE PLUS-V3 005

IDE MULTI-FUNCTION CARD  
IDE PLUS-V3