

## 1. Introduction

The CA9342 is an advanced controller card with built-in AT I/O and IDE/FDD functions. It is compact in size, yet offers excellent performance and compatibility with IBM PC/AT and compatibles.

The CA9342 is equipped with two serial ports, a parallel port, a game port, an IDE hard disk and floppy disk controller. All functions and ports can be enabled or disabled individually according to system requirements.

With the CA9342, you can free expansion slots and shorten the installation time for system setups.

## 2. Features:

### AT I/O FUNCTIONS:

- Two asynchronous serial ports CN4 & CN5
  - Configurable as COM1/COM3 and COM2/COM4 respectively
  - Interrupt level configurable for IRQ 2,3,4, or 5
- One parallel printer port CN1
  - Selectable as LPT1 (378) or LPT2 (278)
  - Interrupt level configurable for IRQ 7 or 5
- One game port CN6

### IDE/FDD FUNCTIONS:

- 16-bit interface and data transfer on up to two IDE (AT bus) hard disk drives.
- Conforms with ANSI ATA Rev. 3.0 IDE standards
- Supports up to two floppy disk drives of any combination of 360K, 1.2M, 720K, & 1.44M

### SERIAL PORTS: CN4 & CN5

CN4 Serial Port 1 (COM1/COM3) & CN5 Serial Port 2 (COM2/COM4)

Jumper	Pins	COM Port Selection	Jumper	Pins	IRQ Settings
JP9	1-2	Enable COM1/COM3	JP11	1-2	Set IRQ3 for Serial Port 1
	2-3	Disable COM1/COM3		2-3	Set IRQ3 for Serial Port 2
JP3	1-2	Set CN4 for COM1 (3F8-3FF)	JP12	1-2	Set IRQ4 for Serial Port 1
	2-3	Set CN4 for COM3 (3E8-3EF)		2-3	Set IRQ4 for Serial Port 2
JP5	1-2	Enable COM2/COM4	JP13	1-2	Set IRQ5 for Serial Port 1
	2-3	Disable COM2/COM4		2-3	Set IRQ5 for Serial Port 2
JP7	1-2	Set CN5 for COM2 (2F8-2FF)	JP14	1-2	Set IRQ2 for Serial Port 1
	2-3	Set CN5 for COM4 (2E8-2EF)		2-3	Set IRQ2 for Serial Port 2

NOTE: 1. \* Default setting  
2. \*\* This setting requires that the device software driver supports the use of IRQ5 (IRQ2 for Serial Ports 1 or 2)

### PARALLEL PORT: CN1

Jumper	Pins	Select
JP2	1-2	Enable Parallel Printer Port*
	2-3	Disable Parallel Printer Port
JP6	1-2	Set Parallel Port to LPT1 (378-37F)**
	2-3	Set Parallel Port to LPT2 (278-27F)
JP15	1-2	Set Parallel Port to Use IRQ7
	2-3	Set Parallel Port to Use IRQ5

### GAME PORT: CN6

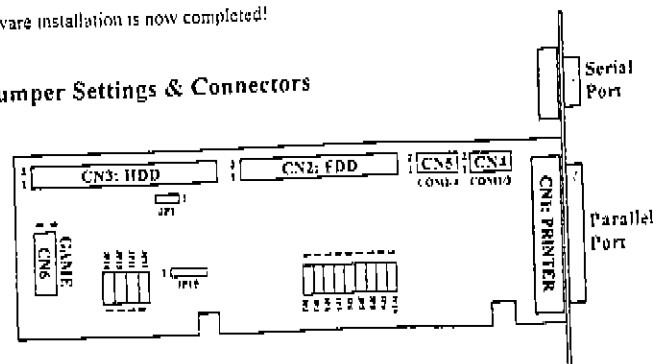
Jumper	Pins	Select
JP8	1-2	Enable Game Port*
	2-3	Disable Game Port

## 3. Hardware Installation

- i. Turn off your computer and any connected peripherals.
- ii. Unscrew and remove the computer cover.
- iii. Set the jumpers on the CA9342 for your required configuration (details see Sec. 4 Jumper Settings).
- iv. Connect the cables with CA9342 and the device(s) that you are going to install. (Make sure that pin-1 is connected to the red strip on the cable)
- v. Plug the CA9342 controller into an open 16-bit expansion slot on your system.
- vi. Fasten the CA9342 controller and others device(s) installed on to your system.
- vii. Replace the cover of your system.

Hardware installation is now completed!

## 4. Jumper Settings & Connectors



### FLOPPY DISK DRIVE PORT: CN2

CN2 FDD Port (34-pin connector) supports two FDDs

Jumper	Pins	Select
JP4	1-2	Enable Floppy Disk Controller*
	2-3	Disable Floppy Disk Controller

### IDE DISK DRIVE PORT: CN3

CN3 IDE "AT bus" HDD Port (40-pin connector) supports two IDE HDDs  
JP1: HDD LED connector (positive line to pin2)

Jumper	Pins	Select
JP10	1-2	Enable IDE Hard Disk Controller*
	2-3	Disable IDE Hard Disk Controller

NOTE: The IDE (AT bus) hard disk controller can only interface with an IDE type hard disk. Connecting an ST412 506 type hard disk to the CA9342 could result in damage to the hard disk drive or system. Check your system manual to ensure that your system has an IDE type hard disk before installing the CA9342.