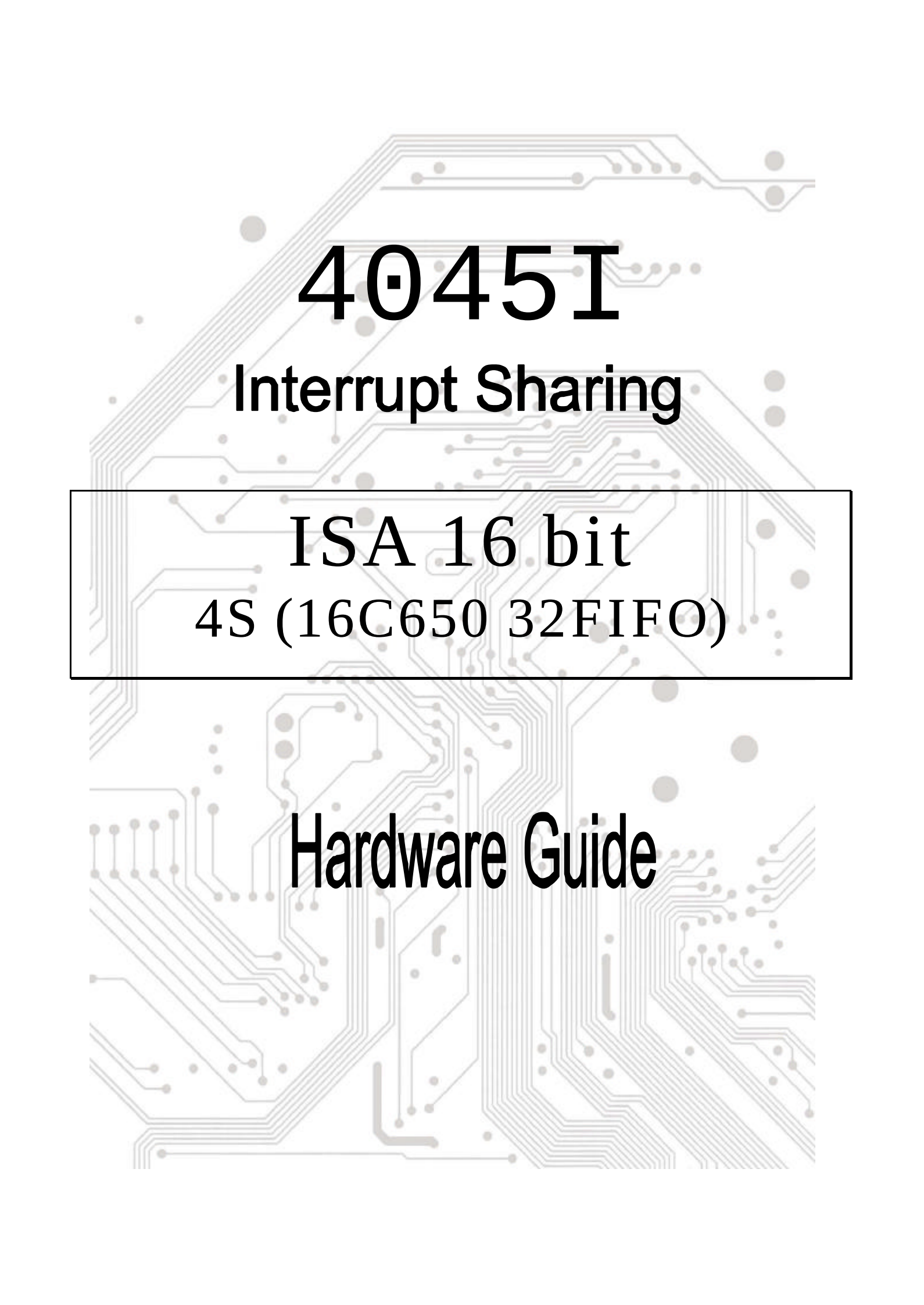




4045I

Interrupt Sharing

ISA 16 bit
4S (16C650 32FIFO)

Hardware Guide

DESCRIPTION:

The 4045I 16Bit ISA bus Interrupt Sharing 4S I/O card is equipped with four High-Speed RS-232.V24 Standard Serial-Interface, The serial port include 32 Byte FIFOs, The speed Up to 960Kb/Sec.

Check your packing listing:

4045I Card
37Pin-4(25Pin)(S1-S4)
Software Driver
Hardware Guide
Installation Guide

Hardware Specification

Serial Port:

UART Chipset: SUN1699, Hardware FIFO are 32Byte FIFOs,
Compatible chips: with 16C650, 16C550, 16C450.

IEEE standard: RS-232 Interface

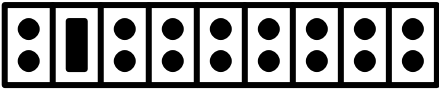
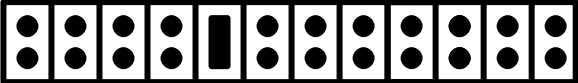
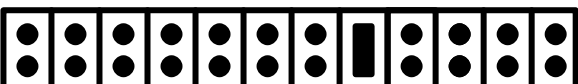
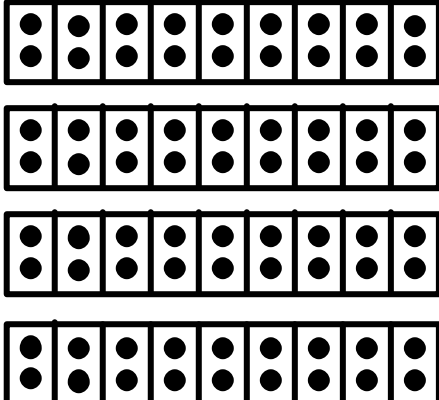
Driver Chipset: TI-75232, speed up to 100Kb/Sec, length 300-500M.

Max. Speed: Up to 960Kb/Sec (HYPER Terminor program)

Hardware Jumper and Connect



Configuration:

ADDRESS		INTERRUPTER	
NO IRQ SHARING	IRQ SHARING	IRQ SHARING	EN/DIS
		 3 4 5 7 9 10 11 12 15	
1 2 3 4 5 6 7 8 9 10 11 12	S1  S2  S3  S4  238h 240h 248h 250h 258h 260h 268h 2F8h 3E8h 3F8h	NO IRQ SHARING  3 4 5 7 9 10 11 12 15	

Hardware installation guide:

-  Turn off the power of your computer
-  Plug-in the 4045I MIO Series Adapter to ISA bus of your computer
-  Add-on the peripheral(Modem, Handy,...etc.) that you need to this Adapter
-  Select S1/S2/S3/S4 port I/O address and IRQ location, see NOTE-1.
-  Turn on the power of your computer
-  If you select 3F8, 2F8, 3E8, and 2E8 (Standard COM1-4 Address), the BIOS will detect your Port and show them on Screen “Serials Port(s)”
-  NOTE: Serial port in Power on Self-Test

The new ISA serial controller contains more advanced features. It uses some reserved bits of 16C550 UART register to enable these features. The old BIOS (ex. 1996 Award BIOS) may check these reserved bits as the Power On self Test (POST). The ISA serial ports will not display in the system summary information, but these serial ports will work correctly. The newer BIOS (since 1997 Award BIOS)

has improved the test method of serial ports and will not check these reserved bits. The ISA serial ports will be tested Ok and display in the system summary information.

✎ NOTE-1: INTERRUPT Sharing

A: No Interrupt Sharing: When you want to select No Interrupt Sharing, you must check your system, each port must have free IRQ location, don't setting two port at same IRQ location.

« JUMPER SETTING »

S1 (JP3), S2 (JP4), S3 (JP7), S4 (JP8): Can set any address.

EN/DIS (JP10): Open (Interrupt Sharing Disable)

IRQ Sharing (JP9): No use

S1 IRQ (JP1), S2 IRQ (JP2), S3 IRQ (JP5), S4 IRQ (JP6): Any location

but each port must use free IRQ location.

B: Interrupt Sharing: When you want to select only Interrupt Sharing, you can select only one IRQ, it support all 4 port mode same IRQ location, you don't need search 4 different free of IRQ location.

« JUMPER SETTING »

S1 (JP3), S2 (JP4), S3 (JP7), S4 (JP8): Only accept from 250 to 238.

EN/DIS (JP10): Short (Interrupt Sharing Enable)

IRQ Sharing (JP9): Any location

S1 IRQ (JP1), S2 IRQ (JP2), S3 IRQ (JP5), S4 IRQ (JP6): No use.

Please must take off JP1, JP2, JP5, JP6, don't put any jumper pin on this four jumper.

✎ **PIN ASSIGNMENTS:**

Serial 25 Pin male connector pin assignments:

Serial 25 Pin D-SUB male (S1-S4):					
Pin	Signal	Pin	Signal	Pin	Signal
1	NC	10	NC	19	NC
2	TD	11	NC	20	DTR
3	RD	12	NC	21	NC
4	RTS	13	NC	22	RI
5	CTS	14	NC	23	NC
6	DSR	15	NC	24	NC
7	GND	16	NC	25	NC
8	CD	17	NC		
9	NC	18	NC		
** NC = Not connect					

TECHNICAL SPECIFICATION:

Compatibility:	- 486/586/Pentium/Pentium-II/III
Operating system:	-WIN 95,98,NT,2000,LINUX
Chips:	-4XSUN1699
Connections:	-37 Pin D-SUB Female connector -4 x 25 Pin D-SUB male connector serial
PCB:	- 2 Layer / 160 x 92 mm

NOTE-2:

- A. Please Don't skip 3E8 and 2E8 when you setting "No IRQ Sharing"(but when you setting IRQ Sharing , don't use 3F8-2E8):** The System have support Two RS-232 port (3F8 and 2F8) , When you install any new Serial port, you must install Address 3E8 and 2E8 first, you can't skip 3E8 and 2E8, direct install Address in 250, 258,260,268,240,248,230,238
- B. Don't setting same IRQ with other ISA card or system I/O Port when you setting "No IRQ Sharing"(but if you setting IRQ Sharing, you only need one IRQ location):** When you select IRQ, please don't select same IRQ with Other I/O card or system I/O port. Because system performance and speed will go down, Our 4045I aren't IRQ sharing, so don't setting same IRQ.
- C. Don't Test ISA Serial Port 16c650 and 16c750 chipset with QAPLus and CheckIT :** Because Our ISA chipset SUN1699 use IN1 and IN2 control FIFOs is 16c550 (16 FIFOs) 16c650 (32 FIFOs) and 16C750 (64 FIFOs), The QAPLus and CheckIT also use this two signal to check 16c550 status, when 16c550, we send IN1 and In2 is 0/0 , so test isn't problem, but when 16c650, we send IN1 and IN2 is 0/1, so QAPLus and CheckIT recieve different value, so they think 16c550 MODEM Ctl ERROR and MODEM Status ERROR.

For this Error, only test program Value define, This isn't any relation with our card using in any system, Our card will working very correct in any device and system, don't worry about this error.