

## **Address and Interrupt Tables**

### **B.1 System Memory Map**

<b>Address Range</b>	<b>Definition</b>	<b>Function</b>
000000 - 09FFFF	640 KB memory	Base memory
0A0000 - 0BFFFF	128 KB video RAM	Reserved for graphics display buffer
0C0000 - 0CBFFF	Video BIOS	Video BIOS
0F0000 - 0FFFFFFF	64 KB system BIOS	System BIOS
10000 - 7FFFF	Extended memory	Onboard memory
80000 - 27FFF		SIMM memory
FE0000 - FFFFFFFF	256 KB system ROM	Duplicate of code assignment at 0E0000-0FFFFFFF

## B.2 I/O Address Map

Address Range	Device
000 - 00F	DMA controller-1
020 - 021	Interrupt controller-1
024, 026, B0h	PicoPower chipset registers
02E - 02F	CMD0643 IDE controller
040 - 043	Timer 1
048 - 04B	Timer 2
060 - 06E	Keyboard controller 8742 chip select
070 - 071	Real-time clock and NMI mask
080 - 08F	DMA page register
0A0 - 0A1	Interrupt controller-2
0C0 - 0DF	DMA controller-2
1F0 - 1F7	Hard disk select
3F6 - 3F7	Hard disk select
170 - 177	CD-ROM select
376 - 377	CD-ROM select
220 - 22F	Audio
240 - 24F	Audio - default
260 - 26F	Audio
280 - 28F	Audio
278 - 27F	Parallel port 3
2E8 - 2EF	COM 4
2F8 - 2FF	COM 2 - IrDA
300 - 301	MPU-401 port - default
310 - 311	MPU-401 port
320 - 321	MPU-401 port
330 - 321	MPU-401 port
34C - 34F	Docking station
378 - 37F	Parallel port 2
388 - 38B	FM synthesizer
3BC - 3BE	Parallel port 1
3B4, 3B5, 3BA	Video subsystem
3C0 - 3C5	
3C6 - 3C9	Video DAC
3C0 - 3CF	Enhanced graphics display
3D0 - 3DF	Color graphics adapter
3E8 - 3EF	COM3 - Modem
3F0 - 3F7	Floppy disk controller
3F8 - 3FF	COM 1 - Serial 1
CF8 - CFF	PCI configuration register

## B.3 Interrupt Levels

Interrupt Number	Interrupt Source (Device Name)
IRQ 0	System Timer
IRQ 1	Keyboard
IRQ 2	Cascade
IRQ 3	IrDA / 2F8h
IRQ 4	Serial Port 1 / 3F8h
IRQ 5	Audio ESS1688
IRQ 6	Floppy Disk Controller (FDC)
IRQ 7	Parallel Port
IRQ 8	Real Time Clock (RTC)
IRQ 9	Ethernet on Port Replicator
IRQ 10	Internal Modem / 3E8h
IRQ 11	PCMCIA
IRQ 12	PS/2 Mouse
IRQ 13	Co-processor
IRQ 14	Hard disk
IRQ 15	CD-ROM

## B.4 DMA Channels

Controller	Channel	Address	Function
1	0	0087	Audio (default)
1	1	0083	Audio (option) / ECP
1	2	0081	Diskette
1	3	0082	Audio (option)
2	4	Cascade	Cascade
2	5	008B	
2	6	0089	Spare
2	7	008A	