

Address and Interrupt Tables

B.1 System Memory Map

| Address Range | Definition | Function |
|----------------------|-------------------|-------------------------------------------------|
| 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 | |