# DM&P M6117D Hardware Reference

                                                                    **2002/12/11**

## Memory Mapping

| Address | Description |
|---------|-------------|
| 0000:0000-9000:FFFF | System RAM |
| A000:0000-A000:FFFF | EGA/VGA Video Memory |
| B000:0000-B000:7FFF | MDA RAM, Hercules graphics display RAM |
| B000:8000-B000:FFFF | CGA display RAM |
| C000:0000-C000:7FFF | EGA/VGA BIOS ROM |
| C800:0000-E000:FFFF | External ROM code. ROM-BIOS looks here (in 2K-block increments) for code to be executed at boot time. |
| D000:0000-E000:FFFF | Expansion ROM space. |
| F000:0000-F000:FFFF | Motherboard BIOS |

## I/O Mapping

| I/O Address | Owner |
|-------------|-------|
| 000h - 00Fh | 8237 DMA Controller #1 |
| 020h - 021h | 8259 Master Interrupt Controller |
| 040h - 043h | 8253 Programmable Timer |
| 060h - 06Fh | 8042 Keyboard Controller |
| 070h - 07Fh | RTC, NMI Mask Register |
| 080h - 09Fh | DMA Page Registers |
| 0A0h - 0B1h | 8259 Slave Interrupt Controller |
| 0C0h - 0DFh | 8237 DMA Controller #2 |
| 0F0h - 0F1h | Math Coprocessor |
| 0F8h - 0FFh | Math Coprocessor |
| 1F0h - 1F8h | Hard Disk Controller #1 |
| 278h - 27Fh | Parallel Printer |
| 2E8h - 2EFh | Serial Port |
| 2F8h - 2FFh | Serial Port |
| 378h - 37Fh | Parallel Printer |
| 3B0h - 3BBh | MDA Adapter |
| 3BCh - 3BFh | Parallel Printer |
| 3C0h - 3CFh | VGA/EGA Adapter |
| 3D0h - 3DFh | CGA Adapter |
| 3E8h - 3EFh | Serial Port |
| 3F0h - 3F7h | Floppy Controller #1 |
| 3F8h - 3FFh | Serial Port |

## IRQ Mapping

| IRQ# | Usage |
|------|-------|
| IRQ0 | System Timer |
| IRQ1 | Keyboard Controller |
| IRQ2 | Cascade for IRQ8 - 15 |
| IRQ3 | Serial Port |
| IRQ4 | Serial Port |
| IRQ5 | LAN Card |
| IRQ6 | Floppy Disk Controller |
| IRQ7 | Parallel Port |
| IRQ8 | Real Time Clock |
| IRQ9 | Redirected to IRQ2 |
| IRQ10 | Unassigned |
| IRQ11 | Unassigned |
| IRQ12 | Mouse (if exist) |
| IRQ13 | Math Coprocessor |
| IRQ14 | Hard Disk Controller |
| IRQ15 | Unassigned |

## Technical Support

If you have any problem, feel free to mail to tech@dmp.com.tw please.

---

Jan Yin Chan Electronics Co., LTD. All rights reserved.                    Email us: info@dmp.com.tw