

TravelMate 5000 Resource Descriptions

I/O Map	
Hex Range	Device
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000-01f	DMA Controller 1, 8237
020-03f	Interrupt controller 1, 8259, Master
040-05f	Timer, 8254
060-06f	8042 keyboard interface
070-07f	Real-time clock, NMI mask
080-09f	DMA page register, 74LS612
092	PS/2 A20 Gate and Reset control
094	GD7542 POS 102 Access Control (3C3 Sleep)
095	Docking Options IRQ mapping and config reg.
0A0-0Bf	Interrupt controller 2, 8259
0C0-0Df	DMA controller 2, 8237
0E0-0E8	TM5000 Special I/O
0F0	Clear math coprocessor busy
0F1	Reset math coprocessor
0F2	ACC Micro 2056 Index Reg.
0F3	ACC Micro 2056 Data Reg.
0F8-0FF	Math Coprocessor
102	GD7542 POS 102 register
104	Sound Board Special I/O port
140-15F	SCSI Controller Optional address (ONLY in Options)
1F0-1F8	Fixed Disk
200-207	Game Port I/O (ONLY in Options)
220-22F	Sound System
220-223	FM chip (OPL2)
224-225	External mixer
226	Sound reset register (Write)
226	Left VU register (Read)
227	Right VU register
228-229	FM chip (OPL3)
22A	Sound Data Read Register
22B	Sound Data Read Reg. (16 Bit PCM)
22C	Sound Command/Data Reg.
22E-22F	Sound Data Available Reg.
238-23F	COM4 address (opt)
2E8-2EF	COM3 address (opt)
2F8-2FF	COM2 address (opt)
300	MIDI Transmit Data Default
300	MIDI Receive Data (Read) Default

301	MIDI Command Reg. Default
301	MIDI Status Reg. (Read) Default
338-33F	Serial 3 address (Default)
340-35F	SCSI Controller Default address (ONLY in Options)
360-36F	Reserved
378-37F	Parallel port 1(LPT1)
388-38B	Sound FM chip (Sound System)
3BA-3DF	Cirrus Logic GD754x Video System
3BA	GD7542 Feature Control - Monochrome (Write)
3BA	GD7542 Input Status Register 1 - monochrome (Read)
3C0-3C1	GD7542 Attribute Controller Index/Data
3C2	GD7542 Miscellaneous Output (Write)
3C2	GD7542 Input Status Register 0 (Read)
3C3	GD7542 Mother Board Sleep
3C4	GD7542 Sequencer Index
3C5	GD7542 Sequencer Data
3C6	GD7542 Video DAC Pixel Mask
3C7	GD7542 Pixel Address Read Mode (Write)
3C7	GD7542 DAC State (Read)
3C8	GD7542 Pixel Mask Write Mode
3C9	GD7542 Pixel Data
3CA	GD7542 Feature Control Readback
3CC	GD7542 Miscellaneous Output Readback
3CE	GD7542 Graphics Controller Index
3CF	GD7542 Graphics Controller Data
3D4	GD7542 CRT Controller Index - color
3D5	GD7542 CRT Controller Index - color
3DA	GD7542 Feature control - color (write)
3DA-3DF	GD7542 Input Status Register 1 - color (read)
3E0-3E1	PCMCIA controller
3F8-3FF	COM1 Address
3F0-3F7	Diskette Controller (FDD)
679-67A	ECP Port 2 register (opt)
779-77A	ECP Port 1 register (opt)
6E8	Shadow of VGA enable at 46E8
CF8	ACC Micro 2188 Index Reg.
CFC	ACC Micro 2188 Data Reg.
46E8	GD7542 Adapter Sleep

DMA Channel Assignments

DMA0	Available	(SCSI on Options)
DMA1	8bit Sound System	
DMA2	Diskette Controller	
DMA3	Available	
DMA4	Cascade for controller 1	
DMA5	Available	
DMA6	Available	
DMA7	16bit Sound System	

Interrupt Assignments

NMI	Reserved
IRQ0	Timer output 0
IRQ1	keyboard output buffer full
IRQ2	cascade input from interrupt controller 2
IRQ3	Serial port 2/4 (PCMCIA modems) by default
IRQ4	Serial port 1/3
IRQ5	Sound System
IRQ6	Diskette controller
IRQ7	Parallel port 1 (LPT1)
IRQ8	Real-time clock interrupt
IRQ9	Sound System (Software redirected to IRQ2)
IRQ10	PCMCIA
IRQ11	Available (SCSI on Options)
IRQ12	Mouse
IRQ13	Coprocessor
IRQ14	Fixed disk controller
IRQ15	Available

Memory Map

Address	Description
000000 09FFFF	640Kb System DRAM
0A0000 0BFFFF	128K Video DRAM
0C0000 0C7FFF	32K Video BIOS ROM
0E8000 0EFFFF	Power Management
0F0000 0FFFFF	64Kb System BIOS ROM
100000 3FFFFF	System Memory (Shadow ROM on)
100000 45FFFF	System Memory (Shadow ROM off)
3FFFFF 7FFFFF	4MB Memory Expansion Option (Shadow ROM on)
45FFFF 85FFFF	4MB Memory Expansion Option (Shadow ROM off)
3FFFFF FDFFFF	16MB Memory Expansion Option (Shadow ROM on)
45FFFF FDFFFF	16MB Memory Expansion Option (Shadow ROM off)
FF0000 FFFFFF	64K System BIOS ROM duplicated from 0F0000