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Detailed Coleco ADAM Computer

I/O Address Map

Port #	Device Output	Input
00	Powermate SASI Hard Drive Output Data	Input Data
01 Register	Powermate SASI Hard Drive Command Register	Status
01 on MIB2 *	MIB2 RESET line Bit 3 = 1 for MIB2 RESET	* Not Used
01 Register	Powermate IDE Hard Drive * Not Used on IDE HD	Error *
02 Register	Powermate IDE Hard Drive Sector Count Register	Sector Count
03 Number Register	Powermate IDE Hard Drive Sector Number Register	Sector
04	Powermate IDE Hard Drive	Cylinder Low

Register	Cylinder Low Register	
05	Powermate IDE Hard Drive	Cylinder
High Register	Cylinder High Register	
06	Powermate IDE Hard Drive	SDH Register
	SDH Register	
07	Powermate IDE Hard Drive	Status
Register	Command Register	
08	Bonafide Sys MIDI Interface	
09	Bonafide Sys MIDI Interface	
0A	Bonafide Sys MIDI Interface	
0B	Bonafide Sys MIDI Interface	
0C	Bonafide Sys MIDI Interface	
0D	Bonafide Sys MIDI Interface	
0E	Bonafide Sys MIDI Interface	
0F	Bonafide Sys MIDI Interface	
10	Powermate Serial ports	Mode
Register A	Mode Register A	
11	Powermate Serial ports	Status
Register A	Clock Select Reg A	
12	Powermate Serial ports	* DO NOT USE
*	Command Register A	
13	Powermate Serial ports	RX Holding
Register A	TX Holding Reg A	

14	Powermate Serial ports	Input Port
Change Reg	Aux Control Register	
15	Powermate Serial ports	Interrupt
Status Reg	Interrupt Mask Reg	
16	Powermate Serial ports	Read Counter
Upper	Set C/T Upper Register	
17	Powermate Serial ports	Read Counter
Lower	Set C/T Lower Register	
18	Powermate Serial ports	Mode
Register B	Mode Register B	
19	Powermate Serial ports	Status
Register B	Clock Select Reg B	
1A	Powermate Serial ports	* DO NOT USE
*	Command Register B	
1B	Powermate Serial ports	RX Holding
Register B	TX Holding Register B	
1C	Powermate Serial ports	* Reserved
(note 5) *	MIB3 Serial Port RESET	
1D	Powermate Serial ports	Read Input
Port Bits	Output Port Config Reg	
1E	Coleco AutoDialer	??
	??	
1E	Powermate Serial ports	Start
Counter Cmd Port	Set Output Port Bits	
1F	Powermate Serial ports	Stop Counter

Cmd Port	Reset Output Port Bits	
20-3F available	AdamNet Reset Output is NOT available	Input MAY be
40 status	Parallel Printer interface Output Data	Printer
41 NOT be avail	May be unused (see note 1) Output MAY be available	Input may
42	Expansion Memory Bank Number	* Not Used *
43 NOT be avail	May be unused (see note 1) Output MAY be available	Input may
44-47	Eve/Orphanware Serial Port	
48-4B	Eve Speech Synth/Clock Card	
4C-4F Eve 80 column terminal ports)	Orphanware Serial Port 2	(Standard
4F Hackers guide as Expansion conn #2)	Coleco Steering controller	(Listed in
50-53	*** Unused ***	
54-57 Orphanware 80 column terminal ports)	Orphanware Serial Port 3	(Standard
58 Lower 8 bits	Powermate IDE Hard Disk Output Data Lower 8 bits	Input Data
59 Upper 8 bits	Powermate IDE Hard Disk Output Data Upper 8 bits	Input Data

5A	Powermate IDE Hard Disk Status Reg	Fixed Disk Control Reg	Alternate
5B	Powermate IDE Hard Disk Input Register	** Not Used by IDE HD	Digital **
5C-5F	Orphanware Serial Port 4		
5E	Adamlink Modem Output Data		Input Data
5F	Adamlink Modem Control		Status
60-7F	Memory Bank Switch Port available	Output is NOT available	Input MAY be
80-8F	*** Unused *** STA (?)		(see note 2)
90-9F	Orphanware Hard Drive STA (?)		
A0-BF	Video Display Processor		
C0	Strobe Reset STB (?)		
C1-DF	*** Unused *** STB (?)		(see note 2)
E0-FF	Sound Chip (Out only)		
FC	Joystick #1 (In only)		
FE	Joystick #2 (In only)		

Notes:

1) Port 41 or port 43 is used by the Eve 80 column unit as a keyboard input port.

2) Not useable from expansion card slots (can't read or write data to or from ports) -

may be available on side port.

3) Powermate IDE hard disk drive will not interfere with Powermate serial ports.

4) Powermate serial ports will probably interfere with autodialer.

5) Reserved ports in Powermate serial port map: Input ports 12 and 1A - screw up serial

ports if used; Input port 1C doesn't bother anything but the 2681 drives the bus;

6) Orphanware serial port number 4 probably interferes with the ADAMlink modem.

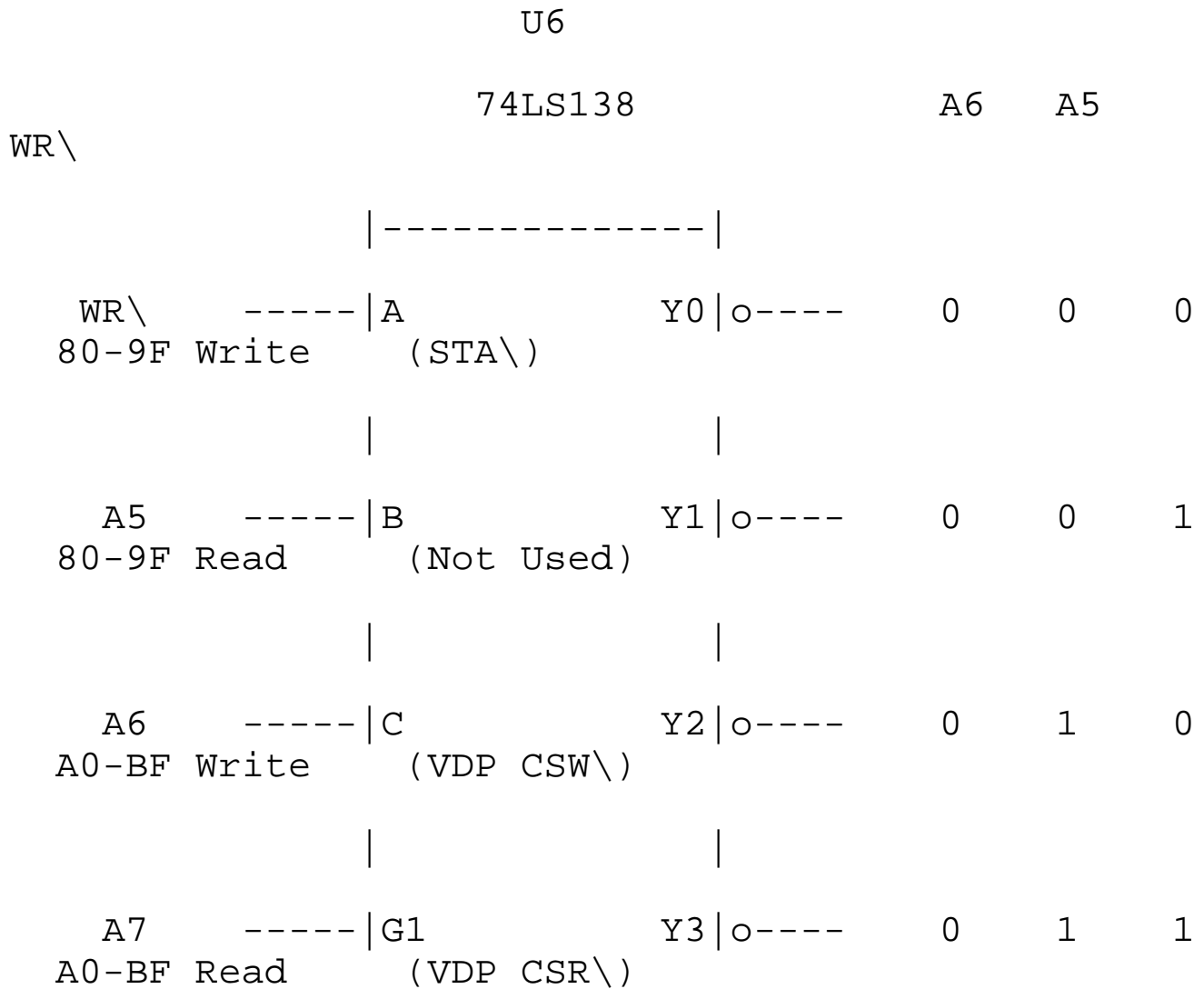
7) According to my analysis of circuit U6 in the ADAM computer, all of upper I/O address

space is decoded (by an LS138). However, not all outputs appear to be used. The

circuit description follows. Please correct any misassumptions I've made. Note that

if my analysis is correct, then the Orphanware hard disk should be interfering with

the signal STA\ (which is associated with the joysticks in some way).



IORQ\ C0-DF Write	----o	G2A (STB\)	Y4 o----	1	0	0
WAIT\ C0-DF Read	----o	G2B (Not Used)	Y5 o----	1	0	1
E0-FF Write		(Sound CE\)	Y6 o----	1	1	0
E0-FF Read		(Joystick Enables)	Y7 o----	1	1	1

Conventions:

- 1) The "o" symbol next to an input or an output implies that the pin requires an active low signal.
- 2) The "\" symbol following a signal mnemonic indicates that the signal is active low.

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