

Detailed Coleco ADAM Computer I/O Address Map

Port #	Device	Input	Output	
0	Powermate SASI Hard Drive	Input Data	Output Data	
1	Powermate SASI Hard Drive	Status Register	Command Register	
1	MIB2 RESET line	* Not Used on MIB2 *	Bit 3 = 1 for MIB2 RESET	
1	Powermate IDE Hard Drive	Error Register	* Not Used on IDE HD *	
2	Powermate IDE Hard Drive	Sector Count Register	Sector Count Register	
3	Powermate IDE Hard Drive	Sector Number Register	Sector Number Register	
4	Powermate IDE Hard Drive	Cylinder Low Register	Cylinder Low Register	
5	Powermate IDE Hard Drive	Cylinder High Register	Cylinder High Register	
6	Powermate IDE Hard Drive	SDH Register	SDH Register	
7	Powermate IDE Hard Drive	Status Register	Command Register	
8	Bonafide Sys MIDI Interface			
9	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	1st write is to MR1A, second write is to MR2A,requires reset to go back to MR1A
11	Powermate Serial ports	Status Register A	Clock Select Reg A	BAUD RATE SELECT
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	AdamNet Reset	Input MAY be available	Output is NOT available	
40	Parallel Printer interface Printer status	Output Data		
41	May be unused (see note 1)	Input may NOT be avail	Output MAY be available	
42	Expansion Memory	* Not Used *	Bank Number	
43	May be unused (see note 1)	Input may NOT be avail	Output MAY be available	
44-47	Eve/Orphanware Serial Port			
44			ADAMLink TRANSMIT	
45		ADAMLink RECV		
48-4B	Eve Speech Synth/Clock Card			
4C-4F	Orphanware Serial Port 2 (Standard Eve 80 column terminal ports)			
4F	Coleco Steering controller (Listed in Hackers guide as Expansion conn #2)			
50-53	*** Unused ***			
54-57	Orphanware Serial Port 3 (Standard Orphanware 80 column terminal ports)			
58	Powermate IDE Hard Disk	Input Data Lower 8 bits	Output Data Lower 8 bits	
59	Powermate IDE Hard Disk	Input Data Upper 8 bits	Output Data Upper 8 bits	
5A	Powermate IDE Hard Disk	Alternate Status Reg	Fixed Disk Control Reg	
5B	Powermate IDE Hard Disk	Digital Input Register	** Not Used by IDE HD **	
5C-5F	Orphanware Serial Port 4			
5E	Adamlink Modem	Input Data	Output Data	
5F	Adamlink Modem	Status	Control	

60-7F	Memory Bank Switch Port	Input MAY be available	Output is NOT available	
80-8F	*** Unused ***	(see note 2)	STA (?)	
90-9F	Orphanware Hard Drive		STA (?)	
A0-BF	Video Display Processor			
C0	Strobe Reset		STB (?)	
C1-DF	*** Unused ***	(see note 2)	STB (?)	
C8	Memory Bank Switch Port EOS/32K		80	
CA	Memory Bank Switch Port 32K/32K		80	
CC	Memory Bank Switch Port smartwrite/XROM		0	
CE	Memory Bank Switch Port smartwrite/32K		0	
EO-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).

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U6
74LS138
-----
A6 A5 WR\
Y0|o---- 0 0 0 80-
WR\ 9F Write (STA\)
|
Y1|o---- 0 0 1 80-
A5 --9F Read (Not Used)
|
Y2|o---- 0 1 0 A0-
A6 --BF Write (VDP CSW\)
|
Y3|o---- 0 1 1 A0-
A7 --BF Read (VDP CSR\)
|
Y4|o---- 1 0 0 C0-
IORQ\ DF Write (STB\)
|
Y5|o---- 1 0 1 C0-
WAIT\ DF Read (Not Used)
|
Y6|o---- 1 1 0 E0-
| FF Write (Sound CE\)
|
Y7|o---- 1 1 1 E0-
| FF Read (Joystick Enables)
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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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