

# Detailed Coleco ADAM Computer I/O Address Map

## Revision 3.2 - Updated June 4, 2026

Original Revision 3.0 - 08/30/92 by Mark Gordon/Micro Innovations

Port #	Device	Input	Output
00	PowerMate SASI Hard Drive	Input Data	Output Data
01	PowerMate SASI Hard Drive	Status Register	Command Register
01	MIB2 RESET line	* Not Used on MIB2 *	Bit 3 = 1 for MIB2 RESET
01	Powermate IDE Hard Drive	Error Register	* Not Used on IDE HD *
02	Powermate IDE Hard Drive	Sector Count Register	Sector Count Register
03	Powermate IDE Hard Drive	Sector Number Register	Sector Number Register
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 Systems MIDI-Mite		
09	Bonafide Systems MIDI-Mite		
0A	Bonafide Systems MIDI-Mite		
0B	Bonafide Systems MIDI-Mite		
0C	Bonafide Systems MIDI-Mite		
0D	Bonafide Systems MIDI-Mite		
0E	Bonafide Systems MIDI-Mite		
0F	Bonafide Systems MIDI-Mite		
10	Powermate Serial ports	Mode Register A	Mode Register A (note #8)
11	Powermate Serial ports	Status Register A	Clock Select Reg A (note #9)
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
43-45	ADAM Speech Synthesizer	Command (43), Status (44) and Reset (45)	
44-47	Eve/Orphanware Serial Port		
44	ADAMLink Modem		TRANSMIT
45	ADAMLink Modem	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)	
50-52	Opcode SGM and Clones	AY-3-8910 Select 50, Data (write) 51, Read (data) 52	
53	Opcode SGM and Clones	SGM Enable - write only - Bit0/Bit1 = SGM banks	
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
5F	C= Interface/Capital Soft.		
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	SmartWriter/XROM	0
CE	Memory Bank Switch Port	SmartWriter/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).
- 8) First write is to MR1A, second write is to MR2A, requires reset to go back to MR1A.
- 9) Baud Rate Select

**UNKNOWN PORT ADDRESS FOR OTHER HARDWARE:**

- 1) Dual Serial 232 (DS232) - Uses the Micro Innovations Serial Port addresses
- 2) Chatterbox Voice Synthesizer Kit by A.A.L. Computing
- 3) Talker Speech Synthesizer by Orphanware/C.L. Digital
- 4) SuperTALK Voice Synthesizer by Steve Jacoby Enterprises
- 4) Real-Time Clock by Orphanware/C.L. Digital
- 5) SmartTALK (2 Serial Ports, 1 Parallel Port and Speech Synthesizer) by S.M. Video
- 6) Serial Interfaces by CNA, Hi-Tek Research, S.M. Video/Minh Ta

		U6 74LS138		A6	A5	WR\		
WR\	----- A	Y0 o----	0	0	0	80-9F Write	(STA\)	
A5	----- B	Y1 o----	0	0	1	80-9F Read	(Not Used)	
A6	----- C	Y2 o----	0	1	0	A0-BF Write	(VDP CSW\)	
A7	----- G1	Y3 o----	0	1	1	A0-BF Read	(VDP CSR\)	
IORQ\	-----o G2A	Y4 o----	1	0	0	C0-DF Write	(STB\)	
WAIT\	-----o G2B	Y5 o----	1	0	1	C0-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.