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Macintosh LC, LC II, and Performa 400: External Pinouts (2/96)

Revised: 2/28/96
Security: Everyone

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TOPIC -----

This article provides the pin assignments and functions for the connectors on the back panels of the Macintosh LC, LC II, and Performa 400 computers.

DISCUSSION -----

Begin_Table

Apple Desktop Bus (ADB)		
Pin	Signal name	Signal description
1	ADB	Data
2	PSW	Reset Key*
3	+5v	+5 volts DC
4	GND	Signal ground
Notes:		
* Reset signal used to generate Reset and Interrupt Key combinations		
Connector type: 4-pin minicircular		
Total length of all cables not to exceed 5 m (16 ft)		

Modem and Printer Ports			
Pin	Signal name	Signal description	
1	HSKo	Handshake out	
2	HSKi	Handshake in/external clock	
3	TXD-	Transmit data -	
4	GND	Signal ground	
5	RXD-	Receive data -	
6	TXD+	Transmit data +	
7	GPi	General purpose input*	
8	RXD+	Receive data +	
* Notes: Not connected. The chip combines the functions of the 8550 (SCC) and the 53C80/53C96 (SCSI) into a single chip. This chip does not have GPi capabilities, so the computers that use it have no GPi functionality.			
Connector type: 8-pin minicircular			

SCSI Port (25-pin)			
Pin	Signal name	Signal description	
1	REQ/	Request	
2	MSG/	Message	
3	I/O/	Input/Output	
4	RST/	SCSI bus reset	
5	ACK/	Acknowledge	
6	BSY/	Busy	
7	GND	Signal ground	
8	DB0/	Data bit 0	

9	GND	Signal ground
10	DB3/	Data bit 3
11	DB5/	Data bit 5
12	DB6/	Data bit 6
13	DB7/	Data bit 7
14	GND	Signal ground
15	C/D/	Common/Data
16	GND	Signal ground
17	ATN/	Attention
18	GND	Signal ground
19	SEL/	Select
20	DBP/	Data parity
21	DB1/	Data bit 1
22	DB2/	Data bit 2
23	DB4/	Data bit 4
24	GND	Signal ground
25	TPWR	Terminator power
WARNING: The SCSI port uses the same type of connector as a standard RS-232, DB-25 serial interface, but it is different electrically. Do not connect any RS-232 device to this connector. Doing so can result in damage to both the device and the Macintosh computer. IMPORTANT: Total length of all cables not to exceed 6 m (20 ft)		
Connector type: DB-25		

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Video Port

Pin	Signal name	Signal description
1	RED.GND	Red video ground
2	RED.VID	Red video
3	CSYNC/	Composite sync
4	MON.ID1	Monitor ID, bit 1
5	GRN.VID	Green video
6	GRN.GND	Green video ground
7	MON.ID2	Monitor ID, bit 2
8	NC	No connection
9	BLU.VID	Blue video
10	MON.ID3	Monitor ID, bit 3
11	C&VSYNC.GND	Composite & vertical sync ground
12	VSYNC/	Vertical sync
13	BLU.GND	Blue video ground
14	HSYNC.GND	Horizontal sync ground
15	HSYNC/	Horizontal sync
Shell	CHASSIS.GND	Chassis ground
Connector type: DB-15		

Sound Output Port		
Pin	Signal name	Signal description
Sleeve	GND	Signal ground
Middle	AUDIO	1 volt peak-to-peak audio signal, right channel
Tip	AUDIO	1 volt peak-to-peak audio signal, left channel

	NOTES:
	The internal speaker is disabled when this port is in use.
+-----+	
	Connector type: Stereo miniature phone plug
+-----+	

+=====+			
		Sound Input Port	
		+=====+	
	Pin		Signal name
			Signal description
+-----+			
	Sleeve		GND
			Signal ground
+-----+			
	Middle		MicPWR
			Microphone power, +8 volts
			+/- 5% @ 1mA
+-----+			
	Tip		SND.IN
			Sound input signal, 1.6K ohm
			+/- 10% impedance, 4 mV
			maximum signal without
			clipping.
+-----+			

End_Table

Article Change History:
28 Feb 1996 - Added additional notes on GPI pin.

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