Tech Info Library

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

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

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|                                                                |
| 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.                      |
+---------+--------------------+--------------------------------+
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End_Table

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

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