PowerBook 140, 145, and 170: External Pinouts (5/93)

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TOPIC --

This article gives the pin assignments and functions for the external
connectors on the PowerBook 140, 145, and 170.

DISCUSSION --

Apple Desktop Bus (ADB)

Pin	Signal name	Signal description
1	ADB	Data
2	PWRON	Power on
3	+5v	+5 volts DC
4	GND	Signal ground

- 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 | NC | General purpose input* |
| 8 | RXD+ | Receive data + |

- Connector type: 8-pin minicircular

HDI-30 SCSI Connector

Pin number	Signal name	Description
1	nc	Reserved for SCSI disk mode.
2	/DB0	Bit 0 of SCSI data bus
3, 8, 10, 12, 13, 15, 17, 20, 22, 24	GND	Ground
4	/DB1	Bit 1 of SCSI data bus
5	TPWR	Termination power
6	/DB2	Bit 2 of SCSI data bus
7	/DB3	Bit 3 of SCSI data bus
9	/ACKS	Handshake signal. When low acknowledges a request for data transfer
11	/DB4	Bit 4 of SCSI data bus
14	/DB5	Bit 5 of SCSI data bus
16	/DB6	Bit 6 of SCSI data bus
18	/DB7	Bit 7 of SCSI data bus
19	/DBP	SCSI data bus parity bit
21	/REQ	Request for a data transfer
23	/BSY	When active (low) indicates that the SCSI data bus is busy
25	/ATN	When active (low) indicates an attention condition
26	/C/D	When active (low) indicates that data is on the SCSI bus. When high, indicates that control

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                                        signals are on the bus

27                     /RST                 SCSI bus reset

28                     /MSG                 Indicates the message phase

29                     /SEL                 SCSI select

30                     /I/O                 Controls the direction of data
                                            output. When high, data is input


Audio Output Connector
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Pin             Signal name         Signal description

(Sleeve)        GND                 Signal ground

(Tip)           Left                0.75-volt peak-to-peak audio signal with an
                                    impedance of 47 Ohms; left channel

(Ring)          Right               0.75-volt peak-to-peak audio signal with an
                                    impedance of 47 Ohms; right channel

Connector type: Stereo miniature phone plug (3.6 mm)


Audio Input Connector (Stereo)
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Pin             Signal name         Signal description

(Tip)           +8V                 +8 volts for powering electret
                                    microphone

(Ring)          Right               Audio input with a maximum amplitude of
                                    20 mV at 600 ohms impedance

(Sleeve)        GND                 Signal ground


Connector type: Stereo miniature phone plug (3.6 mm)

Warning: Don't connect any device other than the Macintosh microphone. Doing
so could damage the device or the computer.
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