PowerBook 160, 165c, 180 and 180c : External Pinouts (6/94)

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TOPIC ---

This article gives the pin assignments and functions for the external
connectors on the PowerBook 160, 165c, 180, and 180c.

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 +

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7             NC                      General purpose input*

8             RXD+               Receive data +

- Connector type: 8-pin minicircular



HDI-30 SCSI Connector
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Pin number            Signal name        Description

1                     nc                 Reserved for SCSI disk mode.

2                     /DB0               Bit 0 of SCSI data bus

3, 8, 10, 12,         GND                Ground
13, 15, 17,
20, 22, 24

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
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		high, indicates that control
		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

Video Port

The video connection is made through a standard DB-15 connector.

Pin number	Signal name	Description
1	RED GND	Red ground
2	RED VID	Red video signal
3	/CSYNC	Composite sync
4	SENSE0	Monitor sense bit 0
5	GRN VID	Green video signal
6	GRN GND	Green ground
7	SENSE1	Monitor sense bit 1
8	mc	No connection
9	BLU VID	Blue video signal
10	SENSE2	Monitor sense bit 2
11	C&VSYNC GND	Ground for CSYNC and VSYNC
12	/VSYNC	Vertical sync
13	BLU GND	Blue ground
14	HSYNC GND	HSYNC ground
15	HSYNC	Horizontal sync

Audio Output Connector

Pin	Signal name	Signal description

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(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
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Connector type: Stereo miniature phone plug (3.6 mm)

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