Tech Info Library

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

```
Revised:        6/24/94
Security:       Everyone


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


=====================================================================

Article Created: 27 May 1993
Article Reviewed/Updated: 24 June 1994


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 +
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 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

(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)

Article Change History:
24 Jun 1994 - Added 180c.

Support Information Services

Tech Info Library Article Number:12941