Tech Info Library

Macintosh Quadra 900/950 and WorkGroup 95: External Pinouts

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Security:       Everyone


Macintosh Quadra 900/950 and WorkGroup 95: External Pinouts


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TOPIC -------------------------------------------------------------


This article gives the pin assignments and functions for the external
connectors on the Macintosh Quadra 900, Quadra 950, and WorkGroup 95.


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 -
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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



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
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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
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- Connector type: DB-25

- Total length of all cables not to exceed 6 m (20 ft.)

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 computer


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Video Port
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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
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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

Ethernet Connector

Pin	Signal Name	Signal Description
1	FN Pwr	Power (+12V @ 2.1W or +5V @ 1.9W)
2	DI-A	Data In circuit A
3	DI-B	Data In circuit B
4	VCC	Voltage Common
5	CI-A	Control In circuit A
6	CI-B	Control In circuit B
7	+5V	+5 volts (from host)
8	+5V	Secondary +5 volts (from host)
9	DO-A	Data Out circuit A
10	DO-B	Data Out circuit B
11	VCC	Secondary Voltage Common
12	NC	Reserved
13	NC	Reserved
14	FN Pwr	Secondary +12V @ 2.1W or +5V @ 1.9W
Shell	Protective Gnd	Protective Ground

AAUI signals have the same description, function, and electrical
requirements as the AUI signals of the same name, as detailed in IEEE
Standard 802.3-1990 CSMA/CD, section 7.

The AAUI (Apple Attachment Unit Interface) connector is a 14-position,
0.050-inch-spaced ribbon contact connector.

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Line Input Connectors
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Pin              Signal description

(Sleeve)         Digital ground

(Tip)            Audio input

Connector type: RCA phono plug

The back panel has two connectors--right and left channel.  Stereo
information is internally mixed to yuield a monaural signal.

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