Tech Info Library

Macintosh Quadra 700: External Pinouts (5/93)

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Revised:        8/11/93
Security:       Everyone


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Article Created: 28 May 1993


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


This article gives the pin assignments and functions for the external
connectors on the Macintosh Quadra 700.


DISCUSSION --------------------------------------------------------


Apple Desktop Bus (ADB)
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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


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SCSI Port (25-pin)
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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
```

- 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.

Tech Info Library Article Number:12945