



Tech Info Library

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 - |
| 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 |
| 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

Video Port

| 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 |
| 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.

Line Input Connectors

| 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 yield a monaural signal.

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