



# Tech Info Library

## Macintosh LC III and Performa 450: External Pinouts (5/93)

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Security: Everyone

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TOPIC -----

This article gives the pin assignments and functions for the external connectors on the Macintosh LC III and Performa 405, 430, and 450:

DISCUSSION -----

### Apple Desktop Bus (ADB)

| Pin number | Signal name | Signal description                                                                                                                                   |
|------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | ADB         | Bidirectional data bus used for input and output. An open-collector signal pulled up to +5 volts through a 470 ohm resistor on the main logic board. |
| 2          | PSW         | Power-on signal.                                                                                                                                     |
| 3          | +5V         | +5 volts from the computer. Maximum current draw is 200 mA. A 1-amp fuse at the output satisfies safety requirements.                                |
| 4          | GND         | Ground from the computer.                                                                                                                            |

### Modem and Printer Ports

| Pin number | Signal name | Signal description |
|------------|-------------|--------------------|
| 1          | HSKo        | Handshake output   |
| 2          | HSKi        | Handshake input    |
| 3          | TxD-        | Transmit data -    |

|   |      |                       |
|---|------|-----------------------|
| 4 | SG   | Signal ground         |
| 5 | RxD- | Receive data -        |
| 6 | TxD+ | Transmit data +       |
| 7 | GPi  | General-purpose input |
| 8 | RxD+ | Receive data +        |

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.

#### External Video Connector Pinout

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| Pin | Signal name | Description                      |
|-----|-------------|----------------------------------|
| 1   | RED.GND     | Red video ground                 |
| 2   | RED.VID     | Red video signal                 |
| 3   | /CSYNC      | Composite synchronization signal |
| 4   | SENSE0      | Monitor sense signal 0           |
| 5   | GRN.VID     | Green video signal               |
| 6   | GRN.GND     | Green video ground               |
| 7   | SENSE1      | Monitor sense signal 1           |
| 8   | n.c.        | Not connected                    |
| 9   | BLU.VID     | Blue video signal                |
| 10  | SENSE2      | Monitor sense signal 2           |
| 11  | GND         | CSYNC and VSYNC ground           |
| 12  | /VSYNC      | Vertical synchronization signal  |
| 13  | BLU.GND     | Blue video ground                |

|       |           |                                   |
|-------|-----------|-----------------------------------|
| 14    | HSYNC.GND | HSYNC ground                      |
| 15    | /HSYNC    | Horizontal synchronization signal |
| Shell | SGND      | Shield ground                     |

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