Tech Info Library

Macintosh 128K, 512K: Connector Pinouts

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Security: Everyone

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Macintosh Mouse Connector

Pin	Name	Description, Notes
1	CGND	Chassis ground
2	+5V	See hardware Description, Notes for power limits
3	CGND	Chassis ground
4	X2	Horizontal movement line (connected to VIA PB4 line)
5	X1	Horizontal movement line (connected to SCC DCDA- line)
6	N-C	Not connected
7	SW-	Mouse button line (connected to VIA PB3)
8	Y2	Vertical movement line (connected to VIA PB5 line)
9	Y1	Vertical movement line (connected to SCC DCDB- line)

Macintosh Keyboard Connector

Pin	Name	Description, Notes
1	CGNB	Chassis ground
2	KBD1	Keyboard clock
3	KBD2	Keyboard data
4	+5V	

Macintosh External Drive Connector

Pin	Name	Description, Notes
1	CGNB	Chassis ground

2	CGND	Chassis ground
3	CGND	Chassis ground
4	CGND	Chassis ground
5	-12V	
6	+5V	
7	+12V	
8	+12V	
9	N-C	Not connected
10	PWM	Regulates speed of the drive
11	CA0	Control line to send commands to the drive
12	CA1	Control line to send commands to the drive
13	CA2	Control line to send commands to the drive
14	LSTRB	Control line to send commands to the drive
15	WrReq-	Turns on the ability to write data to the drive
16	HdSel	Control line to send commands to the drive
17	Enbl2-	Enables the Rd line (else Rd is tristated)
18	Rd	Data actually read from the drive
19	Wr	Data actually written to the drive

Macintosh RS422 9 Pin Communications Connectors

The following pin connections apply to the interfaces for both the serial communications modem port and the serial printer port on the Macintosh 128K and 512K. If the device being connected to the Macintosh uses RS422 the cable must have pins 4 and 8. If the device uses RS-232 pins 4 and 8 are not necessary.

DB-9 Connector Pin	Signal Name RS-232:	RS-422:	Comments
1	GND	GND	Ground
2	Not used	+5V	Don't use this one; it may be converted into output handshake in later equipment
3	GND	GND	Ground
4	Tx+	Tx+	Transmit Data, positive going component
5	Tx-	Tx-	Transmit data, negative going component
6	+12V	+12V	Use this one only to detect Macintosh power on, not as a power source.
7	DSR	HSK	Handshake input. Signal name depends on the mode: Used for Flow Control or Clock in.
8	Rx+	Rx+	Receive Data, positive going component
9	Rx-	Rx-	Receive Data, negative going component

NOTE:
Macintosh uses pin 7 as an input when communicating to printers in order

to determine whether the printer is ready to receive data (DTR hardware handshaking). Macintosh uses software handshaking for connecting to remote computers or terminals.

The signal range for RS-422 communication is 2 to 6 volts. Refer to EIA Standard RS-422 available from:

EIA Engineering Department
2001 Eye St. N.W.
Washington, D.C. 20006

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