



# Tech Info Library

## Macintosh Plus: External Pinouts (5/93)

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TOPIC -----

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

DISCUSSION -----

### Mouse Connector

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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)

### Keyboard Connector

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

### External Drive Connector

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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

#### 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	NC	No connection

- 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 Macintosh Classic.

Audio Output Port

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Pin	Signal name	Signal description
(Sleeve)	GND	Signal ground
(Tip)	AUDIO	.5 volt peak-to-peak audio signal

- Connector type: Miniature mono phone plug
  - The internal speaker is disabled when this port is in use.
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