



Tech Info Library

Macintosh Portable: External Pinouts (5/93)

Article Created: 29 April 1993

TOPIC -----

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

DISCUSSION -----

Apple Desktop Bus (ADB)

Pin	Signal name	Signal description
1	ADB	Data
2	NC	Reserved
3	+5 V	+5 volts DC
4	GND	Signal ground

- Connector type: 4-pin minicircular

- Total length of all cables not to exceed 5 meters (16 feet).

Disk Drive Port

Pin	Signal name	Signal description
1	GND	Signal ground
2	GND	Signal ground
3	GND	Signal ground
4	GND	Signal ground
5	NC	No connection
6	+5 V	+5 volts DC

7	+12 V	+12 volts DC
8	+12 V	+12 volts DC
9	NC	No connection
10	PWM	Mode select
11	PH0	Register select CA0
12	PH1	Register select CA1
13	PH2	Register select CA2
14	PH3	Register write strobe LSTRB
15	WRREQ/	Write request
16	SEL	Register select line SEL
17	ENBL/	Drive enable
18	RD	Read data
19	WR	Write data

- Connector type: DB-19

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/	Command/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 meters (20 feet).

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 LC.

Video Port

Pin	Signal name	Signal description
1	FPDATA(0)	Flat panel display data bus (bit 0)
2	FPDATA(1)	Flat panel display data bus (bit 1)
3	+5 V	+5 volts DC
4	FPDATA(2)	Flat panel display data bus (bit 2)
5	FPDATA(3)	Flat panel display data bus (bit 3)

6	FPDATA(4)	Flat panel display data bus (bit 4)
7	GND	Ground
8	+5 V	+5 volts DC
9	GND	Ground
10	FPDATA(5)	Flat panel display data bus (bit 5)
11	FPDATA(6)	Flat panel display data bus (bit 6)
12	FPDATA(7)	Flat panel display data bus (bit 7)
13	BATT_ VOLTAGE	Direct connect to main battery
14	FLM	Flat panel new frame sync
15	CL2 /	Flat panel display data clock

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	GPi	General purpose input*
8	RXD+	Receive data +

*Modem port only: Can be set in software to be a synchronous external clock.

- Connector type: 8-pin minicircular

Audio Jack

Pin	Signal name	Signal description
Sleeve	GND	Signal ground

Ring	Right	0.75 volt peak-to-peak audio signal, right channel
Tip	Left	0.75 volt peak-to-peak audio signal, left channel

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

Power Adapter Port

Pin	Signal name	Signal description
Sleeve	GND	Ground
Tip	CHGR PWR	Power adapter, +7.5 volts

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Keywords: CABINFO

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19960215 11:05:19.00

Tech Info Library Article Number: 12944