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Macintosh SE and SE 30: External Pinouts (5/93)

Article Created: 29 April 1993

TOPIC -----

This article gives the pin assignments and functions for the connectors on the back panels of the Macintosh SE and SE/30. The pinouts are the same with the exception of the audio output ports. The Macintosh SE provides a monaural signal and the Macintosh SE/30 a stereo signal. Appropriate information appears below.

DISCUSSION -----

Apple Desktop Bus (ADB)

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

- Connector type: 4-pin minicircular

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

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 20 feet (6 meters)

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.

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 second external clock.

- Connector type: 8-pin minicircular

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	-12v	-12 volts DC
6	+5v	+5 volts DC
7	+12v	+12 volts DC
8	+12v	+12 volts DC
9	NC	No connection
1	PWM	Motor speed control
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

Audio Jack for the Macintosh SE

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.

Audio Jack for the Macintosh SE/30

Pin	Signal name	Signal description
(Sleeve)	GND	Signal ground
(Ring)	RIGHT	.75 volt peak-to-peak audio signal, right channel
(Tip)	LEFT	.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.

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Keywords: CABINFO

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19960215 11:05:19.00

Tech Info Library Article Number: 12947