

# SPARCstation 5 Input/Output Connectors

This appendix contains pinouts and illustrations of the SPARCstation 5 system input/output (I/O) connectors. The following connectors are described.

- *SCSI Connector (External)*
- *Parallel Port Micro-D Connector*
- *Attachment Unit Interface (AUI) Micro-D Connector*
- *Twisted-Pair Ethernet Connector*
- *Serial Connector Ports A and B*
- *Keyboard/Mouse Connector*
- *Audio Ports*
- *13W3 Video Connector*

## B.1 SCSI Connector (External)

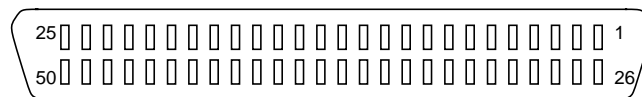


FIGURE B-1 External SCSI Connector

TABLE B-1 Pinout Signals<sup>1</sup> for External SCSI Connector

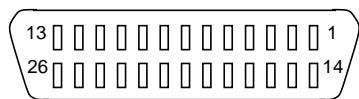
Pin	Description	Pin	Description	Pin	Description
1	Ground	19	Ground	37	Ground
2	Ground	20	Ground	38	Termpower
3	Ground	21	Ground	39	Ground

**TABLE B-1** Pinout Signals<sup>1</sup> for External SCSI Connector (Continued)

Pin	Description	Pin	Description	Pin	Description
4	Ground	22	Ground	40	Ground
5	Ground	23	Ground	41	Attention
6	Ground	24	Ground	42	Ground
7	Ground	25	Ground	43	Busy
8	Ground	26	Data 0	44	Acknowledge
9	Ground	27	Data 1	45	Reset
10	Ground	28	Data 2	46	Message
11	Ground	29	Data 3	47	Select
12	Ground	30	Data 4	48	Control data
13	N/C	31	Data 5	49	Request
14	Ground	32	Data 6	50	Direction
15	Ground	33	Data 7		
16	Ground	34	Parity		
17	Ground	35	Ground		
18	Ground	36	Ground		

1. All signals are active low.

## B.2 Parallel Port Micro-D Connector



**FIGURE B-2** Parallel Port Micro-D Connector

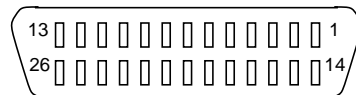
**TABLE B-2** Pinout for Parallel Port Micro-D Connector

Pin	Description	Pin	Description
1	Strobe_out_l	14	Auto_feed_out_l
2	Data[0]	15	Errpr_in_l
3	Data[1]	16	Init_out_l

**TABLE B-2** Pinout for Parallel Port Micro-D Connector (*Continued*)

Pin	Description	Pin	Description
4	Data[2]	17	Select_in_l
5	Data[3]	18	Ground
6	Data[4]	19	Ground
7	Data[5]	20	Ground
8	Data[6]	21	Ground
9	Data[7]	22	Ground
10	Ack_out_l	23	Ground
11	Busy_out_l	24	Ground
12	Pe_in	25	Ground
13	Select_out	26	Ground

## B.3 Attachment Unit Interface (AUI) Micro-D Connector



**FIGURE B-3** Attachment Unit Interface (AUI) Micro-D Connector

**TABLE B-3** Pinout for Attachment Unit Interface (AUI) Micro-D Connector

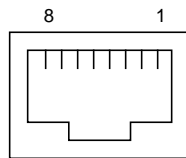
Pin	Description	Pin	Description
1	Transmit -	14	Transmit +
2	Receive +	15	Receive -
3	Collision -	16	Collision +
4	Power	17	Ground
5	N/C	18	N/C
6	N/C	19	N/C
7	N/C	20	N/C
8	N/C	21	N/C

**TABLE B-3** Pinout for Attachment Unit Interface (AUI) Micro-D Connector (*Continued*)

Pin	Description	Pin	Description
9	N/C	22	N/C
10	N/C	23	Ground
11	N/C	24	Ground
12	N/C	25	N/C
13	N/C	26	Ground

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## B.4 Twisted-Pair Ethernet Connector



**FIGURE B-4** Twisted-Pair Ethernet Connector

**TABLE B-4** Pinout for Twisted-Pair Ethernet Connector

Pin	Description	Pin	Description
1	Transmit Data +	5	N/C
2	Transmit Data -	6	Receive Data -
3	Receive Data +	7	Presence detect
4	N/C	8	Presence detect

## B.5 Serial Connector Ports A and B

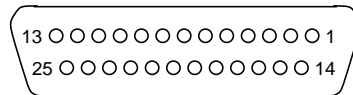


FIGURE B-5 Serial Connector

TABLE B-5 Pinout for Serial Connector Ports A and B

Pin	Description	Pin	Description
1	N/C	14	N/C
2	Transmit Data (TxD)	15	Transmit Clock IN (TRxC)
3	Receive Data (RxD)	16	N/C
4	Request to Send (RTS)	17	Receive Clock (RTxC)
5	Clear to Send (CTS)	18	N/C
6	Data Set Ready (DSR)	19	N/C
7	Signal Ground	20	Data Terminal Ready (DTR)
8	Data Carrier Detect (DCD)	21	N/C
9	N/C	22	N/C
10	N/C	23	N/C
11	N/C	24	Transmit Clock OUT (TRxC)
12	N/C	25	N/C
13	N/C		

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## B.6 Keyboard/Mouse Connector

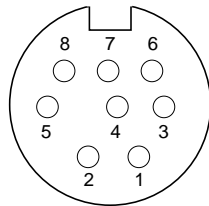


FIGURE B-6 Keyboard/Mouse Connector

TABLE B-6 Pinout for Keyboard/Mouse Connector

Pin	Description	Pin	Description
1	Ground	5	Keyboard Out
2	Ground	6	Keyboard In
3	+5 Vdc	7	Power Key In
4	Mouse In	8	+5 Vdc

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**Note** – All signals are standard TTL levels. The +5V supply is fuse-protected.

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## B.7 Audio Ports

The SPARCstation 5 audio ports are shown in FIGURE B-7.

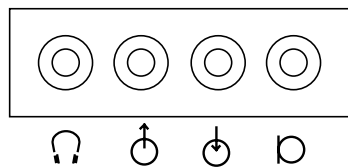


FIGURE B-7 SPARCstation 5 Audio Ports

TABLE B-7 describes the signals for the audio ports.

TABLE B-7 Signals for the SPARCstation 5 Audio Ports

	Headphone	Line-Out	Line-In	Microphone (new)
Tip	Left Channel	Left Channel	Left Channel	Left Channel
Ring (Center)	Right Channel	Right Channel	Right Channel	Right Channel
Shield	Ground	Ground	Ground	Ground

## B.7.1 Headphone Connector



FIGURE B-8 Headphone Connector

This connector is used to connect a set of stereophonic headphones to the system for private listening of audio output.

## B.7.2 Audio Line-out Connector



FIGURE B-9 Audio Line-out Connector

This connector is used to connect the system audio output to a stereophonic amplifier and external loudspeakers.

## B.7.3 Audio Line-in Connector



FIGURE B-10 Audio Line-in Connector

This connector is used to connect external stereophonic sound sources such as a compact disc player or cassette tape player to the system.

## B.7.4 Microphone Connector



FIGURE B-11 Microphone Connector

This connector is used to connect the SunMicrophone™ II (or other suitable microphone) to the system.

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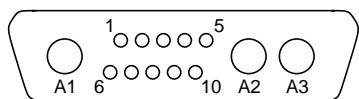
**Note** – The SPARCstation 5 microphone port accepts stereophonic input; however, the SunMicrophone II is a monophonic device. Note also that the older SunMicrophone is not compatible with the SPARCstation 5 system.

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## B.8 13W3 Video Connector

FIGURE B-12 shows a 13W3 video connector. The 13W3 connector's pin assignments and functions are described in TABLE B-8. The connector is built into the SBus or S24 frame buffer card.



**FIGURE B-12** SPARCstation 5 13W3 Video Connector

**TABLE B-8** 13W3 Video Connector Pin Assignments

Pin	Function	I/O	Level
A1	Red	O	Analog
A2	Green	O	Analog
A3	Blue	O	Analog
1	Serial Read		TTL
2	Vert Sync	O	TTL
3	Sense <0>	I	TTL
4	Ground		GND
5	Comp Sync	O	TTL
6	Hort Sync	O	TTL
7	Serial Write		TTL
8	Sense <1>	I	TTL
9	Sense <2>	I	TTL
10	Ground		GND

