

Interface Signals and Cables



This appendix describes the pinouts and the signal descriptions for the SCSI and SBus connectors.

68-Pin SCSI P-Connector

Figure B-1 shows the pinouts for the differential 68-pin SCSI P-connector.

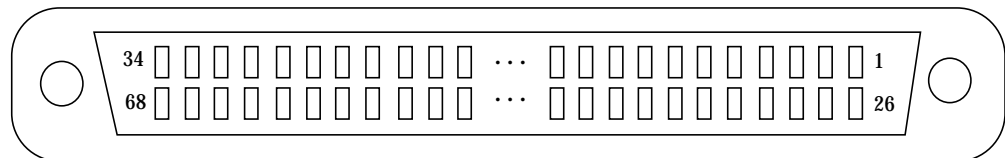


Figure B-1 Pinouts for Differential 68-Pin SCSI P-Connector.

Table B-1 lists the signal descriptions for the differential 68-pin SCSI P-connector.

Table B-1 Signal Descriptions for Differential 68-Pin SCSI P-Connector

| Pin | Description | Pin | Description |
|-----|-------------|-----|-------------|
| 1 | D(12)+ | 35 | D(12)- |
| 2 | D(13)+ | 36 | D(13)- |
| 3 | D(14)+ | 37 | D(14)- |
| 4 | D(15)+ | 38 | D(15)- |
| 5 | DP(1)+ | 39 | DP(1)- |

Table B-1 Signal Descriptions for Differential 68-Pin SCSI P-Connector (Continued)

| Pin | Description | Pin | Description |
|-----|----------------------|-----|-------------|
| 6 | Ground | 40 | Ground |
| 7 | D(0)+ | 41 | D(0)- |
| 8 | D(1)+ | 42 | D(1)- |
| 9 | D(2)+ | 43 | D(2)- |
| 10 | D(3)+ | 44 | D(3)- |
| 11 | D(4)+ | 45 | D(4)- |
| 12 | D(5)+ | 46 | D(5)- |
| 13 | D(6)+ | 47 | D(6)- |
| 14 | D(7)+ | 48 | D(7)- |
| 15 | DP+ | 49 | DP- |
| 16 | DIFSENS | 50 | Ground |
| 17 | TERMPWR ¹ | 51 | TERMPWR |
| 18 | TERMPWR | 52 | TERMPWR |
| 19 | OPEN | 53 | OPEN |
| 20 | ATN+ | 54 | ATN- |
| 21 | Ground | 55 | Ground |
| 22 | BSY+ | 56 | BSY- |
| 23 | ACK+ | 57 | ACK- |
| 24 | RST+ | 58 | RST- |
| 25 | MSG+ | 59 | MSG- |
| 26 | SEL+ | 60 | SEL- |
| 27 | C/D+ | 61 | C/D- |
| 28 | REQ+ | 62 | REQ- |
| 29 | I/O+ | 63 | I/O- |
| 30 | Ground | 64 | Ground |
| 31 | D(8)+ | 65 | D(8)- |
| 32 | D(9)+ | 66 | D(9)- |
| 33 | D(10)+ | 67 | D(10)- |
| 34 | D(11)+ | 68 | D(11)- |

1. TermPwr (termination power) is supplied through a polyfuse and a Shottky diode that prevents backflow of power to the expander board (initiator) SCSI port. Any SCSI device can supply terminator power.

Note – 8-bit devices connected to the P-cable have the following signals open: D(8)-, D(9)-, D(10)-, D(11)-, D(12)-, D(13)-, D(14)-, D(15)-, DP(1)-, D(8)+, D(9)+, D(10)+, D(11)+, D(12)+, D(13)+, D(14)+, D(15)+, DP(1)+.

96-Pin SBus Connector

Figure B-2 shows the pinouts for the 96-pin SBus connector.

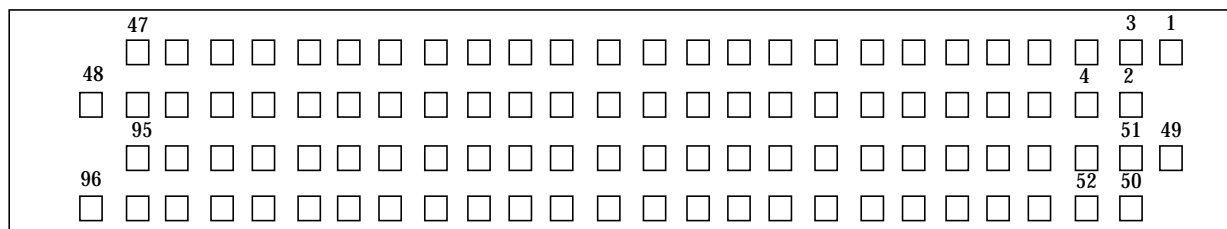


Figure B-2 Pinouts for SBus Connector

Table B-2 lists the signal descriptions for the 96-pin SBus connector.

Table B-2 Signal Descriptions for 96-Pin SBus Connector

| Pin | Description | Pin | Description | Pin | Description | Pin | Description |
|-----|-------------|-----|-------------|-----|-------------|-----|-------------|
| 1 | Ground | 25 | sb_d(31) | 49 | sb_clk | 73 | sb_d(30) |
| 2 | sb_br* | 26 | sb_siz(0) | 50 | sb_bg* | 74 | sb_siz(1) |
| 3 | sb_sel* | 27 | sb_siz(2) | 51 | sb_as* | 75 | sb_rd |
| 4 | sb_irq1* | 28 | sb_irq7* | 52 | Ground | 76 | Ground |
| 5 | sb_d(0) | 29 | sb_pa(0) | 53 | sb_d(1) | 77 | sb_pa(1) |
| 6 | sb_d(2) | 30 | sb_pa(2) | 54 | sb_d(3) | 78 | sb_pa(3) |
| 7 | sb_d(4) | 31 | sb_pa(4) | 55 | sb_d(5) | 79 | sb_pa(5) |
| 8 | sb_irq2* | 32 | sb_merr* | 56 | +5VDC | 80 | +5VDC |
| 9 | sb_d(6) | 33 | sb_pa(6) | 57 | sb_d(7) | 81 | sb_pa(7) |
| 10 | sb_d(8) | 34 | sb_pa(8) | 58 | sb_d(9) | 82 | sb_pa(9) |
| 11 | sb_d(10) | 35 | sb_pa(10) | 59 | sb_d(11) | 83 | sb_pa(11) |
| 12 | sb_irq3* | 36 | sb_err* | 60 | Ground | 84 | Ground |
| 13 | sb_d(12) | 37 | sb_pa(12) | 61 | sb_d(13) | 85 | sb_pa(13) |
| 14 | sb_d(14) | 38 | sb_pa(14) | 62 | sb_d(15) | 86 | sb_pa(15) |
| 15 | sb_d(16) | 39 | sb_pa(16) | 63 | sb_d(17) | 87 | sb_pa(17) |
| 16 | sb_irq4* | 40 | sb_ack8* | 64 | +5VDC | 88 | +5VDC |
| 17 | sb_d(19) | 41 | sb_pa(18) | 65 | sb_d(18) | 89 | sb_pa(19) |
| 18 | sb_d(21) | 42 | sb_pa(20) | 66 | sb_d(20) | 90 | sb_pa(21) |
| 19 | sb_d(23) | 43 | sb_pa(22) | 67 | sb_d(22) | 91 | sb_pa(23) |
| 20 | sb_irq5* | 44 | sb_ack32* | 68 | Ground | 92 | Ground |
| 21 | sb_d(25) | 45 | sb_pa(24) | 69 | sb_d(24) | 93 | sb_pa(25) |

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Table B-2 Signal Descriptions for 96-Pin SBus Connector (Continued)

| Pin | Description | Pin | Description | Pin | Description | Pin | Description |
|-----|-------------|-----|--------------------|-----|-------------|-----|-------------|
| 22 | sb_d(27) | 46 | sb_pa(26) | 70 | sb_d(26) | 94 | sb_pa(27) |
| 23 | sb_d(29) | 47 | Ext | 71 | sb_d(28) | 95 | sb_reset* |
| 24 | sb_irq6* | 48 | -12VDC (unused) | 72 | +5VDC | 96 | +12VDC |