

TECHNICAL NOTES

Cable pinout and distance guides

SGI OPEN LDI

Mating face of MDR36 female

PIN#	SIGNAL	PIN#	SIGNAL
1	LINK2 D0-	19	LINK2 D3-
2	LINK2 D0+	20	LINK2 D3+
3	LINK2 D1-	21	LINK2 CLK-
4	LINK2 D1+	22	LINK2 CLK+
5	LINK2 D2-	23	DDC CLK SCL
6	LINK2 D2+	24	VCC
7	NC	25	DDC DATA SDA
8	NC	26	GND
9	GND	27	NC
10	GND	28	GND
11	NC	29	NC
12	NC	30	NC
13	LINK1 D0-	31	NC
14	LINK1 D0+	32	GND
15	LINK1 D1-	33	LINK1 CLK-
16	LINK1 D1+	34	LINK1 CLK+
17	LINK1 D2-	35	LINK1 D3-
18	LINK1 D2+	36	LINK1 D3+

EVC

Mating face of EVC female

PIN#	SIGNAL	PIN#	SIGNAL
1	T.M.D.S DATA 2 +	19	1394 VG
2	T.M.D.S DATA 2 -	20	1394 VP
3	T.M.D.S DATA 2 RTN	21	T.M.D.S DATA 0 -
4	SYNC RTN	22	T.M.D.S DATA 0 +
5	HORIZ. SYNC TTL	23	T.M.D.S DATA 0 RTN
6	VERTICAL SYNC TTL	24	STEREO SYNC TTL
7	T.M.D.S CLOCK RTN	25	DDC RTN
8	CHARGING PWR INPUT +	26	DDC DATA SDA
9	1394 PAIR A, DATA -	27	DDC CLOCK SCL
10	1394 PAIR A, DATA +	28	+5 VDC
11	T.M.D.S DATA 1 +	29	1394 PAIR B, CLOCK +
12	T.M.D.S DATA 1 -	30	1394 PAIR B, CLOCK -
13	T.M.D.S DATA 1 RTN	C1	RED VIDEO OUT
14	T.M.D.S CLOCK +	C2	GREEN VIDEO OUT
15	T.M.D.S CLOCK -	C3	PIXEL CLOCK OUT
16	USB DATA +	C4	BLUE VIDEO OUT
17	USB DATA -	C5	COMMON GND RTN
18	1394 SHIELD/CHARGING POWER INPUT-		

DVI

Mating face of DVI female

PIN#	SIGNAL	PIN#	SIGNAL
1	TMDS DATA 2 -	16	HOT PLUG DETECT
2	TMDS DATA 2 +	17	TMDS DATA 0 -
3	TMDS DATA 2/4 SHIELD	18	TMDS DATA 0 +
4	TMDS DATA 4 -	19	TMDS DATA 0/5 SHIELD
5	TMDS DATA 4 +	20	TMDS DATA 5 -
6	DDC CLOCK	21	TMDS DATA 5 +
7	DDC DATA	22	TMDS CLOCK SHIELD
8	ANALOG VERT. SYNC	23	TMDS CLOCK +
9	TMDS DATA 1 -	24	TMDS CLOCK -
10	TMDS DATA 1 +		
11	TMDS DATA 1/3 SHIELD	C1	ANALOG RED
12	TMDS DATA3-	C2	ANALOG GREEN
13	TMDS DATA3+	C3	ANALOG BLUE
14	+5V POWER	C4	ANALOG HORZ. SYNC
15	GND	C5	ANALOG GROUND

DIGITAL FLAT PANEL DFP PORT

Mating face of MDR20 female

PIN#	SIGNAL	PIN#	SIGNAL
1	TX1+	11	TX2+
2	TX1-	12	TX2-
3	SHLD1	13	SHLD2
4	SHLDC	14	SHLD0
5	TXC+	15	TX0+
6	TXC-	16	TX0-
7	GND	17	NC
8	+5V	18	HPD
9	NC	19	DDC DAT
10	NC	20	DDC CLK

RS232 DB9 INTERFACE

Mating face of male RS232 DB9 (9-pin D)

PIN#	SIGNAL
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

RS232 DB25 INTERFACE

Mating face of male RS232 DB25

PIN#	SIGNAL	PIN#	SIGNAL
1	N/A	14	N/A
2	TXD	15	N/A
3	RXD	16	N/A
4	RTS	17	N/A
5	CTS	18	N/A
6	DSR	19	N/A
7	GND	20	DTR
8	DCD	21	N/A
9	N/A	22	RI
10	N/A	23	N/A
11	N/A	24	N/A
12	N/A	25	N/A
13	N/A		

CABLE DISTANCE GUIDE

Cable Type	Bandwidth Megahertz	Distance (Feet)	Cable OD (In.)
miniRG59	25	250	.15
miniRG59	50	150	.15
miniRG59	100	100	.15
RG59	25	250	.242
RG59	50	150	.242
RG59	100	100	.242
RG6	25	300	.3
RG6	50	200	.3
RG6	100	150	.3
RG11	25	500	.405
RG11	50	300	.405
RG11	100	200	.405

IEEE 1394

Mating face of 6-pin firewire socket

PIN#	SIGNAL
1	POWER
2	GND
3	TPB-
4	TPB+
5	TPA-
6	TPA+

IEEE 1394 A

Mating face of 4-pin firewire socket

PIN#	SIGNAL
1	TPB-
2	TPB+
3	TPA-
4	TPA+

RS232 RJ45 INTERFACE

Mating face of female RS232 RJ45

PIN#	SIGNAL	PIN#	SIGNAL
1	RTS	5	GND
2	DTS	6	RXD
3	TXD	7	DSR
4	GND	8	CTS

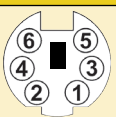
CEXT VIDEO CABLE

- OD .7 inches
- 4 RG59 coax
- 4 twisted lo-cap pairs
- PVC jacket

TECHNICAL NOTES

Cable pinout and distance guides


PS/2 KEYBOARD OR MOUSE



Mating face of 6-pin miniDIN female

PIN#	SIGNAL
1	DATA
2	NC
3	GND
4	+5
5	CLOCK
6	NC

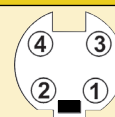
SUN KEYBOARD & MOUSE



Mating face of 8-pin miniDIN female

PIN#	SIGNAL
1	GND
2	GND
3	+5
4	MOUSE
5	KYBD RCV
6	KYBD XMT
7	PWRN
8	+5

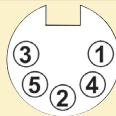
MAC KEYBOARD OR MOUSE



Mating face of 4-pin miniDIN female

PIN#	SIGNAL
1	DATA
2	PWRN
3	+5
4	GND

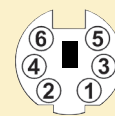
PC/AT KEYBOARD



Mating face of 5-pin DIN female

PIN#	SIGNAL
1	CLOCK
2	DATA
3	NC
4	GND
5	+5


SILICON GRAPHICS KYBD/MSE



Mating face of 6-pin miniDIN female

PIN#	SIGNAL
1	KYBD DATA
2	MOUSE DATA
3	GND
4	+5
5	KYBD CLOCK
6	MOUSE CLOCK


MAC VIDEO



Mating face of 15D male

PIN#	SIGNAL	PIN#	SIGNAL
1	GND	9	BLUE
2	RED	10	ID3
3	CSYNC	11	GND
4	ID1	12	VS
5	GREEN	13	GND
6	GND	14	GND
7	ID2	15	HS
8	NC		


VGA VIDEO WITH DDC



Mating face of 15-pin HD male

PIN#	SIGNAL	PIN#	SIGNAL
1	RED	9	NC
2	GREEN	10	SYNC RTN
3	BLUE	11	ID0
4	ID2	12	ID1 or DDC DATA
5	GND	13	HSYNC
6	RED SHLD	14	VSYNC
7	GREEN SHLD	15	ID3 or DDC CLOCK
8	BLUE SHLD		


SUN & SGI VIDEO



Mating face 13W3 female

PIN#	SIGNAL	PIN#	SIGNAL	PIN#	SIGNAL
1	GND	6	HSYNC	A1	RED
2	VSYSNC	7	GND	A2	GREEN
3	ID2	8	ID1	A3	BLUE
4	GND	9	ID0		
5	CSYNC	10	GND		

SERIAL MOUSE

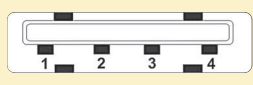


Mating face of 9-pin D male

PIN#	SIGNAL
1	NC
2	RX
3	TX
4	DTR
5	GND
6	NC
7	RTS
8	NC
9	NC

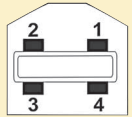
UNIVERSAL SERIAL BUS

Type A



Mating face of USB Type A female

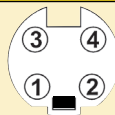
Type B



Mating face of USB Type B female

PIN#	SIGNAL
1	+5
2	-DATA
3	+DATA
4	GND


S-VIDEO



Mating face of 4-pin miniDIN male

PIN#	SIGNAL
1	GND_Y
2	GND_C
3	LUMINANCE_Y
4	CROMINANCE_C

HDMI



Mating face of Type-A male

PIN#	SIGNAL
1	TMDS Data2+
2	TMDS Data2 Shield
3	TMDS Data2-
4	TMDS Data1+
5	TMDS Data1 Shield
6	TMDS Data1-
7	TMDS Data0+
8	TMDS Data0 Shield
9	TMDS Data0-
10	TMDS Clock+
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC (not used)
14	Reserved (N.C. on device)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect



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