



Kabellänge: 500mm

FSC D2703-S; Hirose DF13-40, straight, SMT			NEC NL6448BC33-63D	
LVDS-Connector			JAE FI-S20S	
SIGNAL	SYMBOL	PIN	Pin No.	Symbol
Ground	GND	1	3	Scan direction
Ground	GND	2	4	Colors
LVDS_Out3+ (ODD_3+)	LO3+	3	1	D3+
LVDS_Out7+ (EVEN_3+)	LO7+	4		
LVDS_Out3- (ODD_3-)	LO3-	5	2	D3-
LVDS_Out7- (EVEN_3-)	LO7-	6		
Ground	GND	7		
Ground	GND	8	5	GND
LVDS_Out2+ (ODD_2+)	LO2+	9	9	D2+
LVDS_Out6+ (EVEN_2+)	LO6+	10		
LVDS_Out2- (ODD_2-)	LO2-	11	10	D2-
LVDS_Out6- (EVEN_2-)	LO6-	12		
Ground	GND	13	11	GND
Ground	GND	14		
LVDS_Out1+ (ODD_1+)	LO1+	15	12	D1+
LVDS_Out5+ (EVEN_1+)	LO5+	16		
LVDS_Out1- (ODD_1-)	LO1-	17	13	D1-
LVDS_Out5- (EVEN_1-)	LO5-	18		
Ground	GND	19	14	GND
Ground	GND	20		
LVDS_Out0+ (ODD_0+)	LO0+	21	15	D0+
LVDS_Out4+ (EVEN_0+)	LO4+	22		
LVDS_Out0- (ODD_0-)	LO0-	23	16	D0-
LVDS_Out4- (EVEN_0-)	LO4-	24		
Ground	GND	25	17	GND
Ground	GND	26	18	GND
LVDS_CLK1+ (CLK_ODD+)	CLK1+	27	6	CLK+
LVDS_CLK2+ (CLK_EVEN+)	CLK2+	28		
LVDS_CLK1- (CLK_ODD-)	CLK1-	29	7	CLK-
LVDS_CLK2- (CLK_EVEN-)	CLK2-	30		
Ground	GND	31	8	GND
Ground	GND	32		
DDC-Clock	DDCCLK	33		
DDC-Data	DDCDATA	34		
LCD-Power ¹⁾	+3.3V / +5V	35	19	VCC
LCD-Power ¹⁾	+3.3V / +5V	36	20	VCC
LCD-Power ¹⁾	+3.3V / +5V	37		
Ground	GND	38		
Ground	GND	39		
LCD_PowerOn	LCD_On	40		

1) selectable via Jumper

Kabellänge: 500mm

FSC D2703-S; JST PHR-8			NEC 104PW201	
Inverter-Connector			53261-0871 (MOLEX)	
SIGNAL	SYMBOL	PIN	Pin No.	Symbol
Ground	GND	1	3, 4 ²⁾	GND
Ground	GND	2	7	BRTH
Backlight Brightness CTRL	tbd	3	6	BRT_Adj
Power 5V	VCC	4		
Power 5V	VCC	5		
Backlight On/Off Control	BL On/Off	6	5	BL On/Off
Power 12V	+12V	7	1	DC-In / 12V
Power 12V	+12V	8	2	DC-In / 12V

2) falls nicht möglich: nur Pin 3 kontaktiert

LVDS-Belegung lt. Datenblatt

CN1 socket (LCD module side): FI-SE20P-HFE (Japan Aviation Electronics Industry Limited (JAE))
Adaptable plug: FI-S20S (Japan Aviation Electronics Industry Limited (JAE))

Pin No.	Symbol	Signal	Remarks
1	A	D3+	Pixel data Note1, Note2
	B	GND	Ground Note3
2	A	D3-	Pixel data Note1, Note2
	B	GND	Ground Note3
3	DPS	Selection of scan direction High: Reverse scan Low or Open: Normal scan Note4	
4	FRC	Selection of the number of colors High: 16,777,216 colors Low or Open: 262,144 colors Note1	
5	GND	Ground Note3	
6	CLK+	Pixel clock Note2	
7	CLK-		
8	GND	Ground Note3	
9	D2+	Pixel data Note2	
10	D2-		
11	GND	Ground Note3	
12	D1+	Pixel data Note2	
13	D1-		
14	GND	Ground Note3	
15	D0+	Pixel data Note2	
16	D0-		
17	GND	Ground Note3	
18	GND		
19	VCC	Power supply Note3	
20	VCC		

Note1: See "4.6 DISPLAY COLORS AND INPUT DATA SIGNALS".

Note2: Twist pair wires with 100Ω (Characteristic impedance) should be used between LCD panel signal processing board and LVDS transmitter.

Parameter	Symbol	min.	typ.	max.	Unit	Remarks
Power supply voltage	VCC	3.0	3.3	3.6	V	-
Power supply current	ICC	-	310 Note1	430 Note2	mA	at VCC= 3.3V

Inverter-Belegung lt. Datenblatt

CN1 socket (Inverter side): 53261-0871 (MOLEX Inc.)
Adaptable plug: 51021-0800 (MOLEX Inc.)

Pin No.	Symbol	Function	Remarks
1	VDDDB	Power supply	Note1
2	VDDDB	Power supply	
3	GNDB	Ground	
4	GNDB	Ground	
5	BRTC	Backlight ON/OFF signal High or Open: Backlight ON Low: Backlight OFF This pin is pulled-up to VDDDB in the product. Pull-up resistance: 100 kΩ	
6	BRTI	Luminance control terminal	Note2
7	BRTH	Luminance control terminal	
8	AM	Alert signal for malfunction	Note3