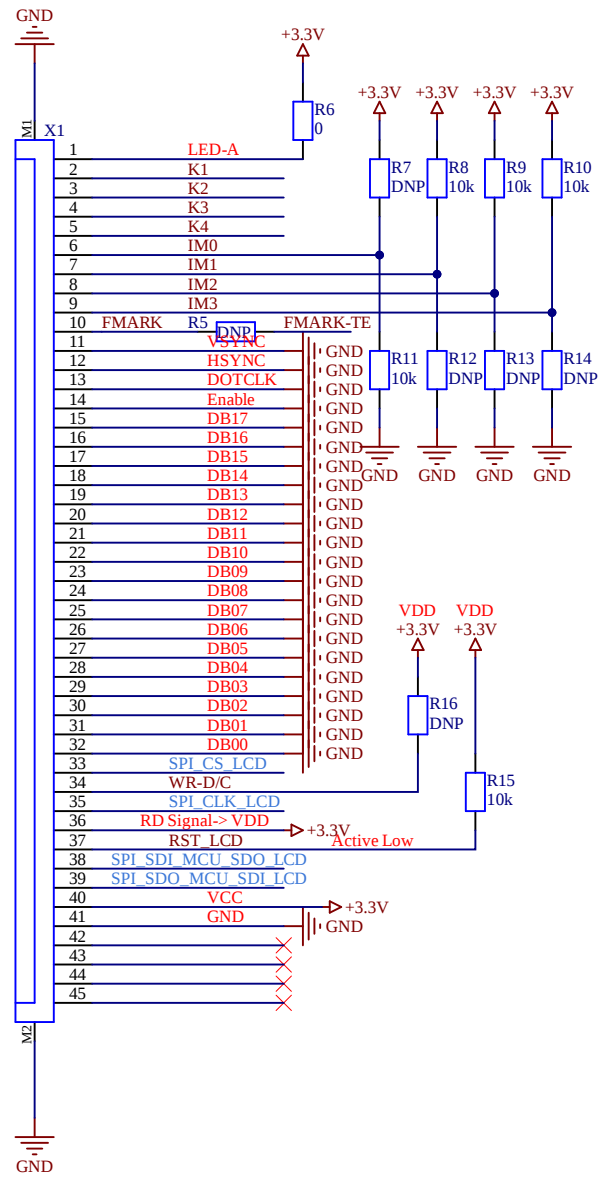


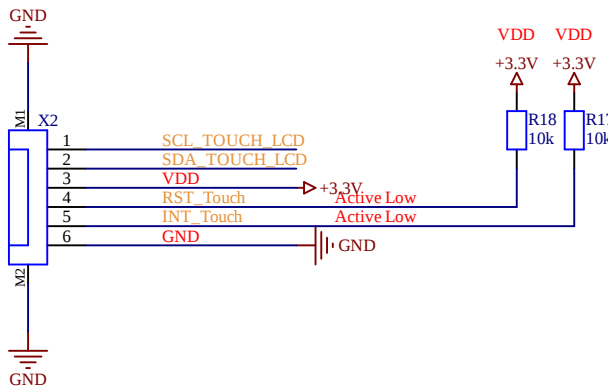
Stecker X1 To Display

große Würth 45pol Zero insertion force 68714514522

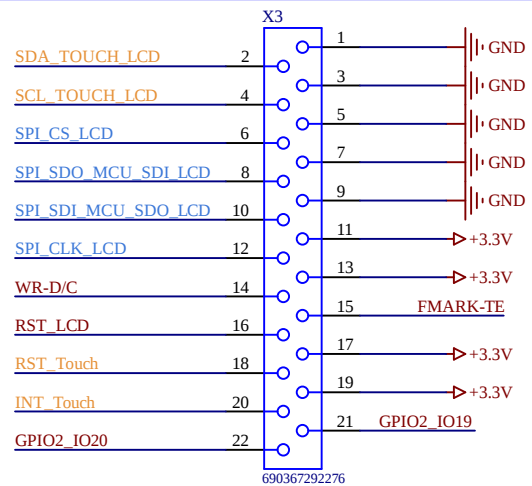


Stecker X2 To Touch_Display

kleine Würth 6pol Zero insertion force 686106148922
Touch 7Bit-I2C:0x70

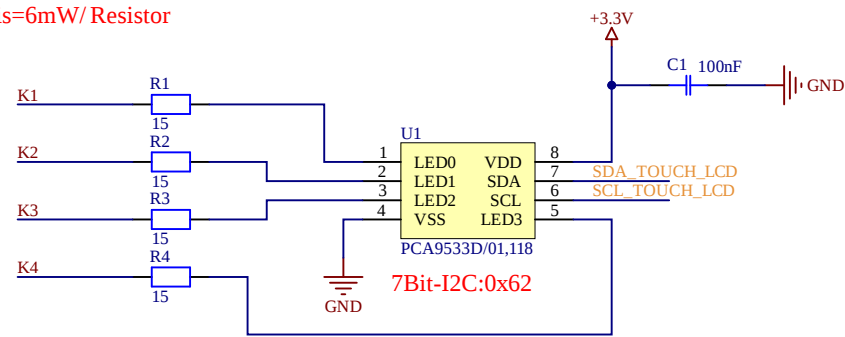


Stecker X3 TO HOST - TORADIX MCU

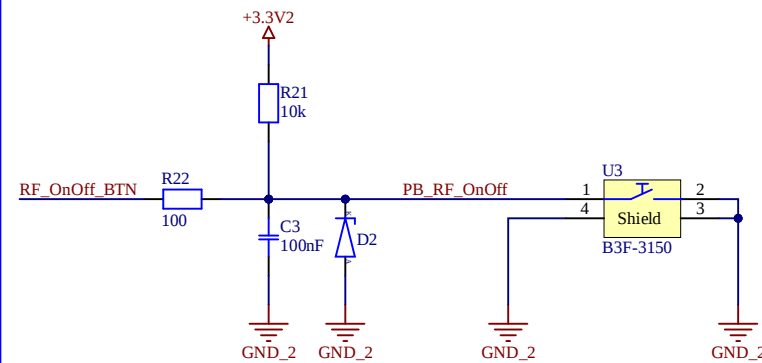


LED Backlight Brightness driver

Iges= 80 mA
Vres =300 mV, Ires= 20 mA -> R =15 Ohm
Pdis=6mW/ Resistor

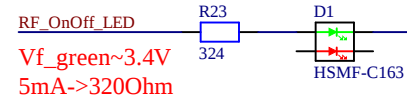


RF ON OFF Button

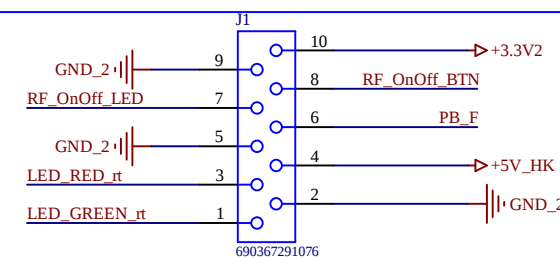


RF ON OFF LED

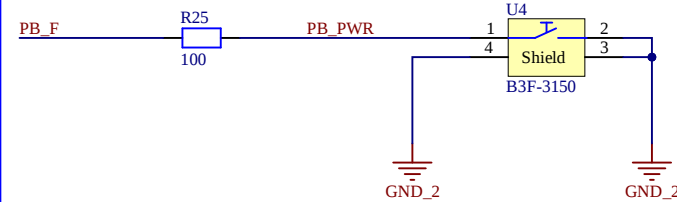
RF_OnOff_LED
Vf_green~3.4V
5mA->320Ohm



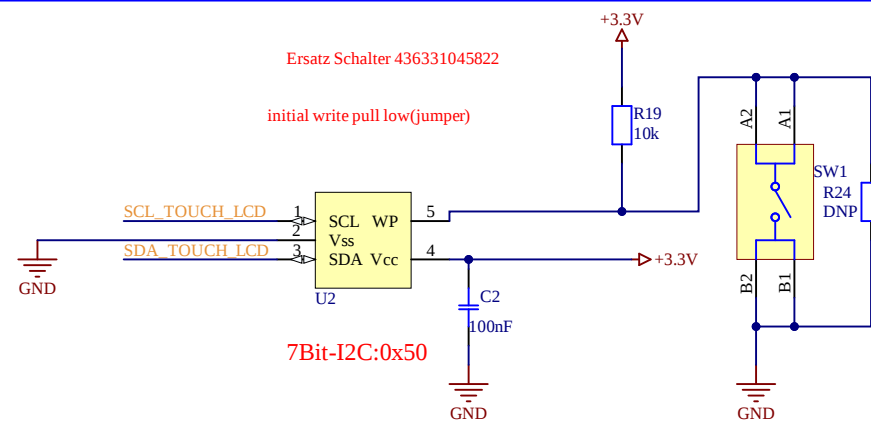
Stecker zu RF LED und Taster



Power ON OFF Button

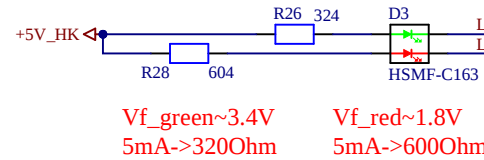


Optional EEPROM



Power ON OFF LED

Vf_green~3.4V
5mA->320Ohm
Vf_red~1.8V
5mA->600Ohm



Belegung stecker von Display DT028BTFT-PTS2

PIN ASSIGNMENT:

PIN	SYMBOL
1	LED-A
2	LED-K1
3	LED-K2
4	LED-K3
5	LED-K4
6	IM0
7	IM1
8	IM2
9	IM3
10	FMARK
11	VSYNC
12	HSYNC
13	DOTCLK
14	ENABLE
15	DB17
16	DB16
17	DB15
18	DB14
19	DB13
20	DB12
21	DB11
22	DB10
23	DB9
24	DB8
25	DB7
26	DB6
27	DB5
28	DB4
29	DB3
30	DB2
31	DB1
32	DB0
33	CS
34	WR
35	DC/SCL
36	RD
37	RESET
38	SDI
39	SDO
40	VCC
41	GND
42	NC(YD)
43	NC(UR)
44	NC(YU)
45	NC(UL)

Pin No.	Symbol	I/O	Function
1	LED-A	P	LED back light(Anode)
2-5	LED-K1-4	P	LED back light(Cathode)
6-9	IM0-3	I	System interface select. Note1
10	FMARK	O	Timing effect output pin to synchronize MPU to frame writing, activated by SW command. Normally Low. Leave open when not in use.
11	VSYNC	I	Frame sync signal. For RGB interface operation. Pin to VDD or VSS when not in use.
12	HSYNC	I	Line sync signal. For RGB interface operation. Pin to VDD or VSS when not in use.
13	DOTCLK	I	Dot clock. For RGB interface operation. Pin to VDD or VSS when not in use.
14	ENABLE	I	Data enable pin. For RGB interface operation. Pin to VDD or VSS when not in use.
15-17	DB17-DB15	I	16-bit parallel data bus for MCU system and RGB interface modes. Pin to VDD when not in use. Refer to Note1 for interface selection.
18	DB14	I	Chip select signal. Active low.
19	DB13	I	RGB16800 Parallel interface write signal.
20	DB12	I	4-wire serial interface. Command/Parameter select. Pin to VDD when not in use.
21	DB11	I	RGB16800 Parallel interface Data/Command select. Pin to VDD when not in use.
22	DB10	I	Serial clock. Pin to VDD or VSS when not in use.
23	DB9	I	RGB16800 Parallel interface Read signal. Pin to VDD when not in use.
24	DB8	I	System Reset. Active Low.
25	DB7	I	Serial data output to send bus system interface. Leave open.
26	DB6	I	Serial data input to send bus system interface. Leave open.
27	DB5	I	Serial data output to send bus system interface. Leave open.
28	DB4	I	Serial data input to send bus system interface. Leave open.
29	DB3	I	Serial data output to send bus system interface. Leave open.
30	DB2	I	Serial data input to send bus system interface. Leave open.
31	DB1	I	Serial data output to send bus system interface. Leave open.
32	DB0	I	Serial data input to send bus system interface. Leave open.
33	CS	I	Chip select signal. Active low.
34	WR	I	4-wire serial interface. Command/Parameter select. Pin to VDD when not in use.
35	DC/SCL	I	RGB16800 Parallel interface Data/Command select. Pin to VDD when not in use.
36	RD	I	Serial clock. Pin to VDD or VSS when not in use.
37	RESET	I	System Reset. Active Low.
38	SDI	I	Serial data output to send bus system interface. Leave open.
39	SDO	I	Serial data input to send bus system interface. Leave open.
40	VCC	P	Power supply.
41	GND	P	Ground.
42	YDNC	O	Touch control pin.
43	YUNC	O	Touch control pin.
44	YUNC	O	Touch control pin.
45	YUNC	O	Touch control pin.

IM3	IM2	IM1	IM0	Interface	DB Pin in use
0	0	0	0	80 MCU 8-bit bus interface	DB17-9
0	0	0	1	80 MCU 16-bit bus interface	DB17-10
0	0	1	0	80 MCU 8-bit bus interface	DB17-11
0	0	1	1	80 MCU 16-bit bus interface	DB17-12
0	1	0	0	80 MCU 8-bit bus interface	DB17-13
0	1	0	1	80 MCU 16-bit bus interface	DB17-14
0	1	1	0	80 MCU 8-bit bus interface	DB17-15
0	1	1	1	80 MCU 16-bit bus interface	DB17-16
1	0	0	0	80 MCU 8-bit bus interface	DB17-17
1	0	0	1	80 MCU 16-bit bus interface	DB17-18
1	0	1	0	80 MCU 8-bit bus interface	DB17-19
1	0	1	1	80 MCU 16-bit bus interface	DB17-20
1	1	0	0	80 MCU 8-bit bus interface	DB17-21
1	1	0	1	80 MCU 16-bit bus interface	DB17-22
1	1	1	0	80 MCU 8-bit bus interface	DB17-23
1	1	1	1	80 MCU 16-bit bus interface	DB17-24

Must select Serial MCU(system) interface to use RGB data interface.

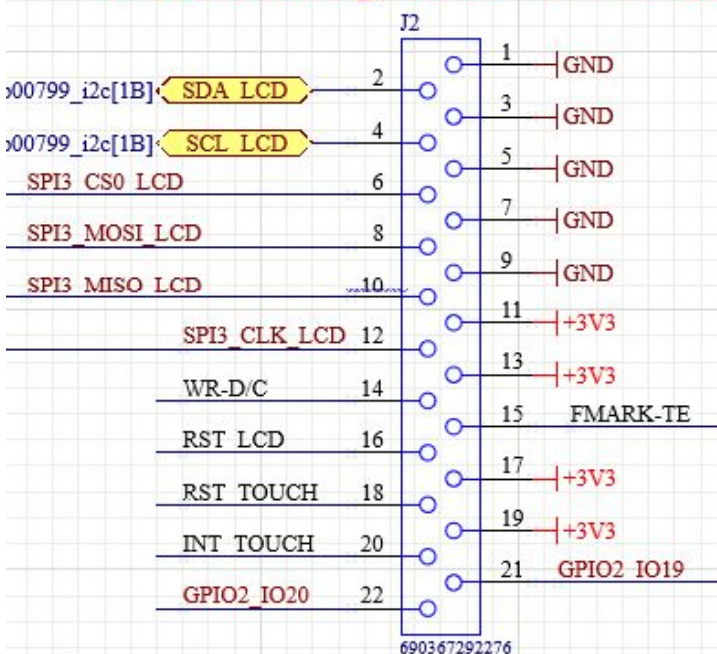
Belegung stecker von Display DT028BTFT-PTS2

I2C:

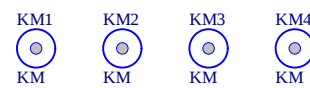
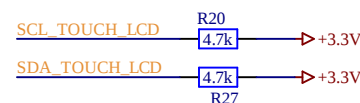
PIN	SYMBOL
1	SCL
2	SDA
3	VDD
4	RESET
5	INT
6	GND

Belegung stecker von Steuerplatine(lp00799) 78125

Steuerung LCD + TOUCH



Optional I2C Pullup



test

Dateiname lp00803_schematics.SchDoc

SVN Rev. 34

-	-	-	Datum	Name	Benennung
-	-	-	15.07.2024	Koenig	[No Variations]
-	-	-	-	Review	-
-	-	-	-	Norm	-
-	-	-	-	SHF AG	-
-	-	-	-	Wilhelm-v.-Siemens-Sr. 23D	-
-	-	-	-	12277 Berlin	-
-	-	-	-	Germany	-
-	-	-	-	Phone: ++49307720510	-
001	12.02.2024	Koenig	Uspg	www.shf.de	05.012.STP0231
Rev.	Andr.-Nr.	Datum	Name	Uspg	Erst.:

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Leiterplattennummer	Blatt
LP00803-01	1
Zeichnungsnummer	von
05.012.STP0231	1
Erst.:	Erst.: