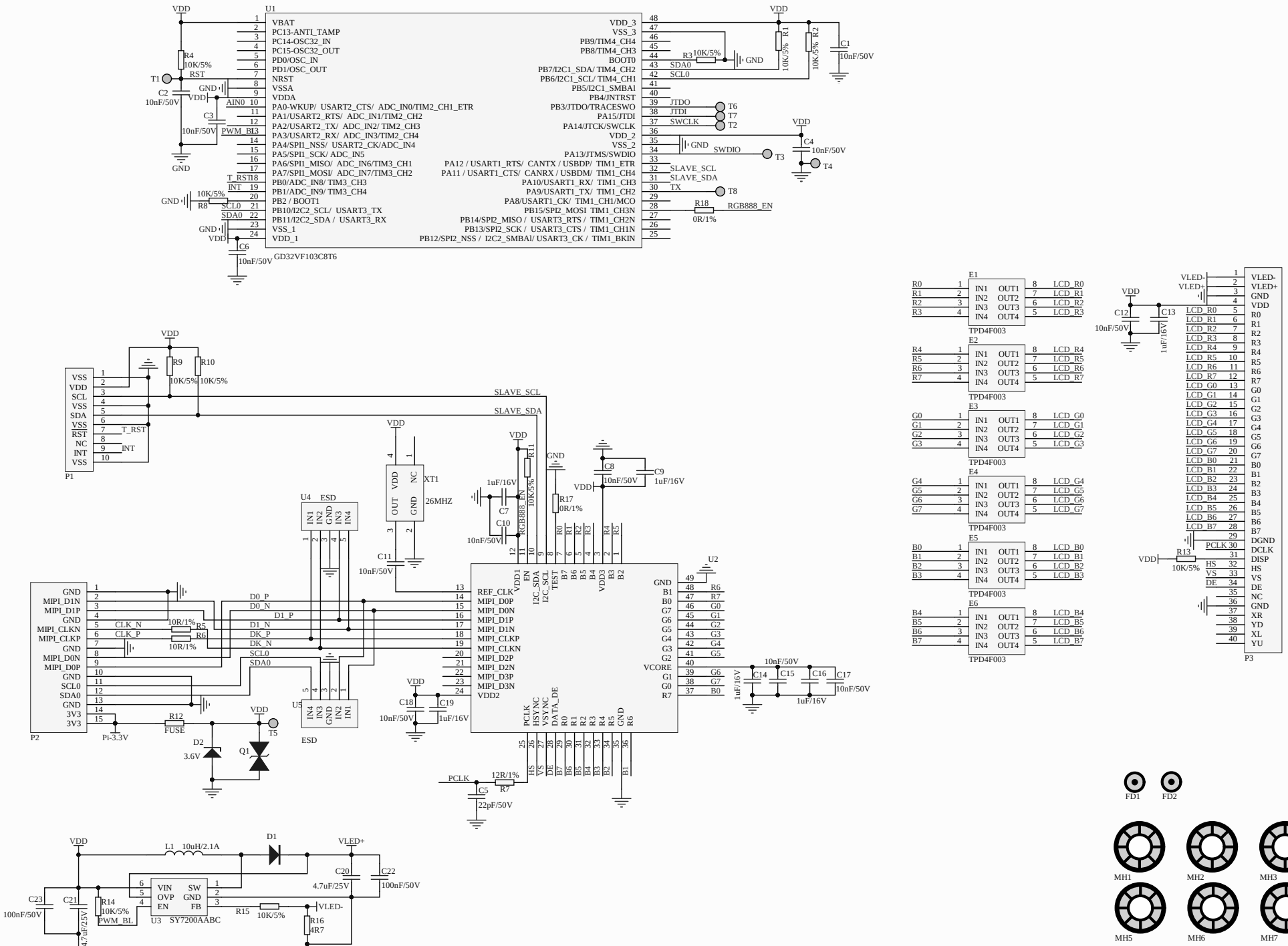
U1
GD32VF103C8T6
VBAT
PC13-ANTI_TAMP
PC14-OSC32_IN
PC15-OSC32_OUT
PD0/OSC_IN
PD1/OSC_OUT
NRST
VSSA
VDDA
PA0-WKUP/ USART2_CTS/ ADC_IN0/TIM2_CH1_ETR
PA1/USART2_RTS/ ADC_IN1/TIM2_CH2
PA2/USART2_TX/ ADC_IN2/ TIM2_CH3
PA3/USART2_RX/ ADC_IN3/TIM2_CH4
PA4/SPI1_NSS/ USART2_CK/ADC_IN4
PA5/SPI1_SCK/ ADC_IN5
PA6/SPI1_MISO/ ADC_IN6/TIM3_CH1
PA7/SPI1_MOSI/ ADC_IN7/TIM3_CH2
PB0/ADC_IN8/ TIM3_CH3
PB1/ADC_IN9/ TIM3_CH4
PB2 / BOOT1
PB10/I2C2_SCL/ USART3_TX
PB11/I2C2_SDA / USART3_RX
VSS_1
VDD_1
VDD_3
VSS_3
PB9/TIM4_CH4
PB8/TIM4_CH3
BOOT0
PB7/I2C1_SDA/ TIM4_CH2
PB6/I2C1_SCL/ TIM4_CH1
PB5/I2C1_SMBAl
PB4/JNTRST
PB3/JTDO/TRACESWO
PA15/JTDI
PA14/JTCK/SWCLK
VDD_2
VSS_2
PA13/JTMS/SWDIO
PA12 / USART1_RTS/ CANTX / USBDP/ TIM1_ETR
PA11 / USART1_CTS/ CANRX / USBDM/ TIM1_CH4
PA10/USART1_RX/ TIM1_CH3
PA9/USART1_TX/ TIM1_CH2
PA8/USART1_CK/ TIM1_CH1/MCO
PB15/SPI2_MOSI TIM1_CH3N
PB14/SPI2_MISO / USART3_RTS / TIM1_CH2N
PB13/SPI2_SCK / USART3_CTS / TIM1_CH1N
PB12/SPI2_NSS / I2C2_SMBAl/ USART3_CK / TIM1_BKIN
VDD
R4 10K/5%
RST
T1
C2 10nF/50V
GND
VDD
AIN0
C3 10nF/50V
PWM_BL
T_RST
INT
R8 10K/5%
SCL0
SDA0
C6 10nF/50V
R3 10K/5%
SDA0
SCL0
R1 10K/5%
R2 10K/5%
C1 10nF/50V
JTDO
JTDI
SWCLK
T6
T7
T2
SWDIO
T3
C4 10nF/50V
T4
SLAVE_SCL
SLAVE_SDA
TX
T8
R18 0R/1%
RGB888_EN
P1
VSS
VDD
SCL
VSS
SDA
VSS
RST
NC
INT
VSS
R9 10K/5%
R10 10K/5%
SLAVE_SCL
SLAVE_SDA
XT1
26MHZ
OUT VDD NC GND
C11 10nF/50V
R11 10K/5%
RGB888 EN
C7 1uF/16V
C10 10nF/50V
R17 0R/1%
C8 10nF/50V
C9 1uF/16V
U4 ESD
IN1 IN2 GND IN3 IN4
U5 ESD
IN4 IN3 GND IN2 IN1
P2
GND
MIPI_D1N
MIPI_D1P
GND
MIPI_CLKN
MIPI_CLKP
GND
MIPI_D0N
MIPI_D0P
GND
SCL0
SDA0
GND
3V3
3V3
CLK_N
CLK_P
R5 10R/1%
R6 10R/1%
D0_P
D0_N
D1_P
D1_N
DK_P
DK_N
SCL0
SDA0
R12 FUSE
Pi-3.3V
D2 3.6V
Q1
T5
U2
REF_CLK
MIPI_D0P
MIPI_D0N
MIPI_D1P
MIPI_D1N
MIPI_CLKP
MIPI_CLKN
MIPI_D2P
MIPI_D2N
MIPI_D3P
MIPI_D3N
VDD2
VDD1 EN I2C_SDA I2C_SCL TEST B7 B6 B5 B4 VDD3 B3 B2
PCLK HSYNC VSYNC DATA_DE R0 R1 R2 R3 R4 R5 GND R6
GND B1 B0 G7 G6 G5 G4 G3 G2 VCORE G1 G0 R7
R6 R7 G0 G1 G2 G3 G4 G5 G6 G7 B0
C18 10nF/50V
C19 1uF/16V
C14 1uF/16V
C15 10nF/50V
C16 1uF/16V
C17 10nF/50V
PCLK
R7 12R/1%
C5 22pF/50V
HS VS DE B7 B6 B5 B4 B3 B2 B1
L1 10uH/2.1A
D1
VLED+
C20 4.7uF/25V
C22 100nF/50V
C23 100nF/50V
C21 4.7uF/25V
R14 10K/5%
PWM_BL
VIN SW
OVP GND
EN FB
U3 SY7200AABC
R15 10K/5%
VLED-
R16 4R7
E1
TPD4F003
R0 R1 R2 R3
LCD_R0 LCD_R1 LCD_R2 LCD_R3
E2
TPD4F003
R4 R5 R6 R7
LCD_R4 LCD_R5 LCD_R6 LCD_R7
E3
TPD4F003
G0 G1 G2 G3
LCD_G0 LCD_G1 LCD_G2 LCD_G3
E4
TPD4F003
G4 G5 G6 G7
LCD_G4 LCD_G5 LCD_G6 LCD_G7
E5
TPD4F003
B0 B1 B2 B3
LCD_B0 LCD_B1 LCD_B2 LCD_B3
E6
TPD4F003
B4 B5 B6 B7
LCD_B4 LCD_B5 LCD_B6 LCD_B7
C12 10nF/50V
C13 1uF/16V
P3
VLED-
VLED+
GND
VDD
R0 R1 R2 R3 R4 R5 R6 R7 G0 G1 G2 G3 G4 G5 G6 G7 B0 B1 B2 B3 B4 B5 B6 B7
LCD_R0 LCD_R1 LCD_R2 LCD_R3 LCD_R4 LCD_R5 LCD_R6 LCD_R7 LCD_G0 LCD_G1 LCD_G2 LCD_G3 LCD_G4 LCD_G5 LCD_G6 LCD_G7 LCD_B0 LCD_B1 LCD_B2 LCD_B3 LCD_B4 LCD_B5 LCD_B6 LCD_B7
DGND
DCLK
DISP
HS
VS
DE
NC
GND
XR
YD
XL
YU
PCLK
R13 10K/5%
FD1
FD2
MH1
MH2
MH3
MH4
MH5
MH6
MH7
MH8
DFROBOT
Title: 5" DSI Touchscreen with Optical Bonding for Raspberry Pi
Code: DFR0550-V2
Drawn: Aaron-CD
Revision: V1.0
Size: A3
Page: 1 of 1
Date: 2023/11/8
Time: 10:19:37

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