Sheet: Lichee Pi Display Connector

POWER_OUT_3V3
POWER_OUT_3V3_GND

VLED−
VLED+

LCD_R2
LCD_R3
LCD_R4
LCD_R5
LCD_R6
LCD_R7

LCD_G2
LCD_G3
LCD_G4
LCD_G5
LCD_G6
LCD_G7

LCD_B2
LCD_B3
LCD_B4
LCD_B5
LCD_B6
LCD_B7

LCD_DE
LCD_CLK
LCD_HSYNC
LCD_VSYNC

File: Licheepi_Display_Connectorsch.sch

Sheet: Display and Touchscreen

VIN_3V3
VIN_GND

LCD_LED_K
LCD_LED_A

DISP_D0
DISP_D1
DISP_D2
DISP_D3
DISP_D4
DISP_D5

DISP_D6
DISP_D7
DISP_D8
DISP_D9
DISP_D10
DISP_D11

DISP_D12
DISP_D13
DISP_D14
DISP_D15
DISP_D16
DISP_D17

DISP_ENABLE
DISP_DOTCLK
DISP_HSYNC
DISP_VSYNC   BACKLIGHT_PWM
TOUCHSCREEN_VDD   DISP_TE
TOUCHSCREEN_GND   DISP_CS
                         DISP_RS
TOUCHSCREEN_SDA   DISP_WR
TOUCHSCREEN_SCL   DISP_RD
TOUCHSCREEN_INT   DISP_SDA
TOUCHSCREEN_RST   DISP_SDO
                         DISP_RESET

File: Display_Touchscreen.sch

Sheet: Standard Goldpin Connector

VIN_3V3
VIN_GND

LCD_LED_K
LCD_LED_A

DISP_D0
DISP_D1
DISP_D2
DISP_D3
DISP_D4
DISP_D5
DISP_D6
DISP_D7
DISP_D8
DISP_D9
DISP_D10
DISP_D11
DISP_D12
DISP_D13
DISP_D14
DISP_D15
DISP_D16
DISP_D17

DISP_ENABLE
DISP_DOTCLK
DISP_HSYNC
DISP_VSYNC

BACKLIGHT_PWM
DISP_TE
DISP_CS
DISP_RS   TOUCHSCREEN_SDA
DISP_WR   TOUCHSCREEN_SCL
DISP_RD   TOUCHSCREEN_IRQ
DISP_SDA   TOUCHSCREEN_RESET
DISP_SDO
DISP_RESET

File: Standard_Goldpin_Connector.sch

Embedded System Labs

Sheet: /
File: maithoga_lcd_board_480x320_R61529.sch

Title: Intermediate board for maithoga lcd 480x320 R61529 with capacitive

| Size: A3 | Date: 2020−08−05 | Rev: V1.0 |
| KiCad E.D.A. kicad 5.1.6−c6e7f7d87ubuntu20.04.1 | | Id: 1/5 |

VIN_3V3 — 3V3
VIN_GND

LCD_LED_K

Sheet: LCD Backlight
3V3 — POWER_VIN_3V3
POWER_VIN_GND   LCD_LED_K
BACKLIGHT_PWM — PWM

LCD_LED_AD
File: LCD_Backlight.sch

LCD_LED_AD

D1
BAS386
3V3

OR_NA   R8   R9   R10
PWR_FLAG

R5
OR_NA
R6
OR_NA
R7
OR

Pin	Signal
1	K1
2	K2
3	K3
4	K4
5	K5
6	K6
7	A
9	IOVCC
10	IOVCC
8	GND
39	GND
45	GND
42	IM2
43	IM1
44	IM0
11	TE
12	CS
13	RS
14	WR
15	RD
16	SDA
17	SDO
18	D0
19	D1
20	D2
21	D3
22	D4
23	D5
24	D6
25	D7
26	D8
27	D9
28	D10
29	D11
30	D12
31	D13
32	D14
33	D15
34	D16
35	D17
36	ENABLE
37	DOTCLK
38	HSYNC
40	VSYNC
41	RESET
P1	VDD
P2	SDA
P3	SCL
P4	INT
P5	RST
P6	GND

DISP_TE
DISP_CS
DISP_RS
DISP_WR
DISP_RD
DISP_SDA
DISP_SDO
DISP_D0
DISP_D1
DISP_D2
DISP_D3
DISP_D4
DISP_D5
DISP_D6
DISP_D7
DISP_D8
DISP_D9
DISP_D10
DISP_D11
DISP_D12
DISP_D13
DISP_D14
DISP_D15
DISP_D16
DISP_D17
DISP_ENABLE
DISP_DOTCLK
DISP_HSYNC
DISP_VSYNC
DISP_RESET

TOUCHSCREEN_VDD
TOUCHSCREEN_SDA
TOUCHSCREEN_SCL
TOUCHSCREEN_INT
TOUCHSCREEN_RST
TOUCHSCREEN_GND

LiangHaoCai
ILI9341
TFT LCD Display

DIS1
maithoga_tft_480x320_rgb_with_capacitive_ts

C2
10uF/10V

L1
22uH

D2
MBR0520L

LCD_LED_A

U2
DIO5661ST6

C3
1uF_0603

POWER_VIN_3V3

POWER_VIN_GND

PWM

6 VIN   LX 1

4 ENABLE FB 3

2 GND   NC 5

LCD_LED_K

R4
10R

P1
Display Connector

Pin (left)	Signal		Signal (right)	Pin

VIN_3V3 — 1 — 1 2 — 2 — VIN_GND
LCD_LED_K — 3 — 3 4 — 4 — LCD_LED_A
DISP_TE — 5 — 5 6 — 6 — DISP_CS
DISP_RS — 7 — 7 8 — 8 — DISP_WR
DISP_RD — 9 — 9 10 — 10 — DISP_SDA
DISP_SDO — 11 — 11 12 — 12 — DISP_D0
DISP_D1 — 13 — 13 14 — 14 — DISP_D2
DISP_D3 — 15 — 15 16 — 16 — DISP_D4
DISP_D5 — 17 — 17 18 — 18 — DISP_D6
DISP_D7 — 19 — 19 20 — 20 — DISP_D8
DISP_D9 — 21 — 21 22 — 22 — DISP_D10
DISP_D11 — 23 — 23 24 — 24 — DISP_D12
DISP_D13 — 25 — 25 26 — 26 — DISP_D14
DISP_D15 — 27 — 27 28 — 28 — DISP_D16
DISP_D17 — 29 — 29 30 — 30 — DISP_ENABLE
DISP_DOTCLK — 31 — 31 32 — 32 — DISP_HSYNC
DISP_VSYNC — 33 — 33 34 — 34 — DISP_RESET
TOUCHSCREEN_SDA — 35 — 35 36 — 36 — TOUCHSCREEN_SCL
TOUCHSCREEN_RESET — 37 — 37 38 — 38 — VIN_GND
TOUCHSCREEN_IRQ — 39 — 39 40 — 40 — BACKLIGHT_PWM

PWR_FLAG

POWER_OUT_3V3 ○— ●—○ 3V3
POWER_OUT_3V3_GND ○—┤

VLED− ○————————————— 40
VLED+ ○————————————— 39
————————————— 38
3V3 ○ 37
●————————————— 36
●————————————— 35
LCD_R2 ○————————————— 34
LCD_R3 ○————————————— 33
LCD_R4 ○————————————— 32
LCD_R5 ○————————————— 31
LCD_R6 ○————————————— 30
LCD_R7 ○————————————— 29
————————————— 28
●————————————— 27
LCD_G2 ○————————————— 26
LCD_G3 ○————————————— 25
LCD_G4 ○————————————— 24
LCD_G5 ○————————————— 23
LCD_G6 ○————————————— 22
LCD_G7 ○————————————— 21
————————————— 20
●————————————— 19
LCD_B2 ○————————————— 18
LCD_B3 ○————————————— 17
LCD_B4 ○————————————— 16
LCD_B5 ○————————————— 15
LCD_B6 ○————————————— 14
LCD_B7 ○————————————— 13
————————————— 12
LCD_CLK ○————————————— 11
3V3 ○ 10
LCD_HSYNC ○————————————— 9
LCD_VSYNC ○————————————— 8
LCD_DE ○————————————— 7
✕ 6
✕ 5
✕ 4
✕ 3
✕ 2
✕ 1

LicheePi_Con
P2