

BACKLIGHT CIRCUIT DIAGRAM

PIN ASSIGNMENT

PIN	SYMBOL
1	GND
2	CTP_SCL
3	CTP_SDA
4	CTP_RST
5	CTP_/INT
6	VDDI
7	VDD
8	VDD
9	IM3
10	IM2
11	IM1
12	IMO
13	RESET
14	CS
15	SDA
16	RS(SPI-SCL)
17	WR(SPI-RS)
18	RD
19	VSYNC
20	HSYNC
21	ENABLE
22	DOTCLK
23	DB00
24	DB01
25	DB02
26	DB03
27	DB04
28	DB05
29	DB06
30	DB07
31	DB08
32	DB09
33	DB10
34	DB11
35	DB12
36	DB13
37	DB14
38	DB15
39	DB16
40	DB17
41	SDO
42	GND
43	LEDA
44	LEDK1
45	LEDK2
46	LEDK3
47	LEDK4
48	LEDK5
49	LEDK6
50	GND

NOTES FOR TFT:

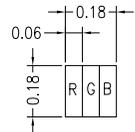
1. DISPLAY TYPE: TFT, TRANSMISSIVE, NORMALLY BLACK
2. OPERATING VOLTAGE: VDD=2.8V (TYP.), VDDI=1.8V/2.8V(TYP.)
3. VIEWING DIRECTION: FULL VIEWING ANGLE
4. DRIVER IC: ST7789T3
5. BACKLIGHT TYPE: WHITE LED, If=120mA, Vf=5.6V~6.8V
6. OP POLARIZER SURFACE TREATMENT: ANTI-GLARE
7. RECOMMEND MATCHING CONNECTOR:  
HRS FH28-40S-0.5SH OR EQUIVALENT

NOTES FOR CTP:

1. 2.83 INCH PROJECTIVE CAPACITIVE TOUCH PANEL
2. COVER GLASS + SENSOR GLASS + FPCA
3. OPERATING VOLTAGE: VDD=2.8V
4. DRIVER IC: FT5446-P03 (SMT)
5. INTERFACE: IIC
6. RESOLUTION: 240\*320
7. MULTI-FINGER: 10
8. HARDNESS OF COVER SURFACE: ≥7H (750G)
9. FIRMWARE FILE:  
MIO283CCP-C22(FT5446-P03)\_FIRMWARE\_V09\_20200519.ALL.BIN

NOTES FOR OTHERS:

1. OPERATING TEMP.: -20°C ~ 70°C
2. STORAGE TEMP.: -30°C ~ 80°C
3. SURFACE LUMINANCE: 850 CD/M<sup>2</sup> (TYP.)
4. ONLY THE SINGLE LAYER AREA ON FPC IS BENDABLE AND THE MINIMUM BEND RADIUS IS 1.5MM
5. UNMARKED TOLERANCE: ±0.2MM
6. ROHS COMPLIANT



DETAIL A (SCALE 40:1)

DETAIL B (SCALE 2:1)

MULTI-INNO TECHNOLOGY CO., LTD.			
DRAWN BY:	CAROL		MODULE P/N:
CHECKED BY:		SCALE : 1/1	MIO283AAT-16CP-A
APPROVED BY:		UNIT: mm	DESCRIPTION:
VER.	01	REVISED DESCRIPTION	TFT + CTP MODULE
REVISER	CAROL	DATE	VERSION NO:
			01
			SHEET NO.: 1/1

01	FIRST ISSUE	CAROL	2025.05.20
VER.	REVISED DESCRIPTION	REVISER	DATE