

MDT0430AC-HDMI	800 x 480	HDMI Interface	TFT Module
Specification			
Version: 1		Date: 24/03/2024	
Revision			
1	22/03/2024	First issue	

Display Features			
Display Size	4.30"		
Resolution	800 x 480		
Orientation	Landscape		
Appearance	RGB		
Logic Voltage	3.3V		
Interface	HDMI		
Brightness	400 cd/m ²		
Touchscreen	CTP		
Module Size	105.50 x 83.20 x 12.40 mm		
Operating Temperature	-0°C ~ +60°C	Created By	Checked By
Pinout	---	TSB	WE
Pitch	---	Box Quantity	Weight / Display
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* - For full design functionality, please use this specification in conjunction with the RTD2281 display driver specification.(Provided Separately)

Display Accessories	
Part Number	Description

Optional Variants	
Appearances	Voltage

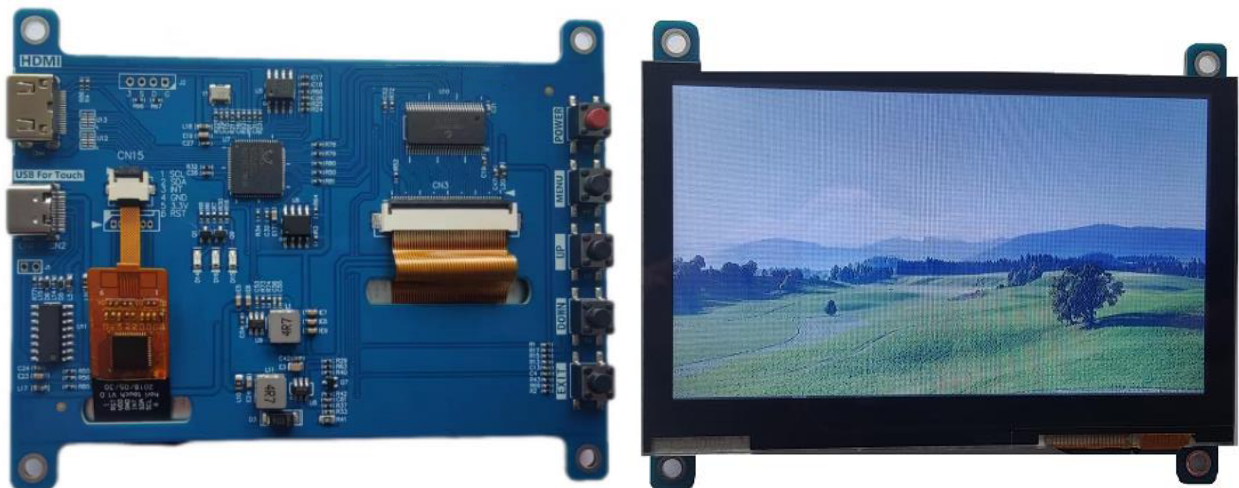


1. GENERAL DESCRIPTION

MDT0430AC-HDMI is a 4.3inch LCD display driver board; Supports MINI HDMI input; Support capacitive touch panel.

MDT0430AC-HDMI 4.3 LCD MINI HDMI

2. FUNCTION LAYOUT



(The color of actual item may vary and the image is only for reference.)

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3. FEATURES

Below you will find the detailed features.

MAIN CHIPSET	RTD2281		
OSD LANGUAGE	Chinese,English,(French, Spanish, Italian, German, Portuguese, Dutch, Korean) (Option)		
VIDEO INPUT			
	HDMI	Format	Up to 800*480@50HZ
		Operating Speed	155MHz
AUDIO OUTPUT	Frequency response		
	Output power		
TOUCH	Interface	USB	
	Touch Panel	6-wire capacitive touch panel	
POWER TO PANEL	3.3V		
Management	Standby Power Consumption < 0.2W(Board Only)		
KEY FUNCTIONS	MENU, UP, DOWN, EXIT, POWER		



4. INTERFACE DEFINITION

4.1 USB IN CONNECTOR CN2(TYPE-C)/CN1(MICRO-USB5P2J)

NO.	SYMBOL	DESCRIPTION
CN2		
1,2,15,16	GND	Ground
3,4,13,14	5V	+5V DC Power supply
5,6,11,12	NC	No connection
7,9	D-	USB bus signal
8,10	D+	USB bus signal

NO.	SYMBOL	DESCRIPTION
CN1		
1	5V	+5V power from host USB
2	D-	USB bus signal
3	D+	USB bus signal
4	NC	No connection
5	GND	Ground

4.2 HDMI IN CONNECTOR CN4 (MINI-HDMI)

NO.	SYMBOL	DESCRIPTION
1-19	HDMI-19	MINI HDMI standard interface



4.3 CAPACITIVE TOUCH SCREEN CONNECTOR CN15(FPC6PIN0.5)/J3(SIP6Z125T)

This part is optional USB (Connect USB interface to computer, touch control can be effective.)

NO.	SYMBOL	DESCRIPTION
CN15		
1	SCL	Capacitive touch panel SDA
2	SDA	Capacitive touch panel SDA
3	INT	Capacitive touch panel SDA
4	GND	Signal ground
5	V3.3	+3.3V power supply for capacitor screen port
6	RST	Capacitive touch panel SDA

NO.	SYMBOL	DESCRIPTION
J3		
1	SCL	Capacitive touch panel SDA
2	SDA	Capacitive touch panel SDA
3	INT	Capacitive touch panel SDA
4	GND	Signal ground
5	V3.3	+3.3V power supply for capacitor screen port
6	RST	Capacitive touch panel SDA

4.4 KEY K1,K2,K3,K4,K5(SMD4J6*6)

NO.	SYMBOL	DESCRIPTION
K1	EXIT	EXIT Key
K2	DOWN	DOWN Key
K3	UP	UP Key
K4	MENU	MENU Key
K5	POWER	POWER Key

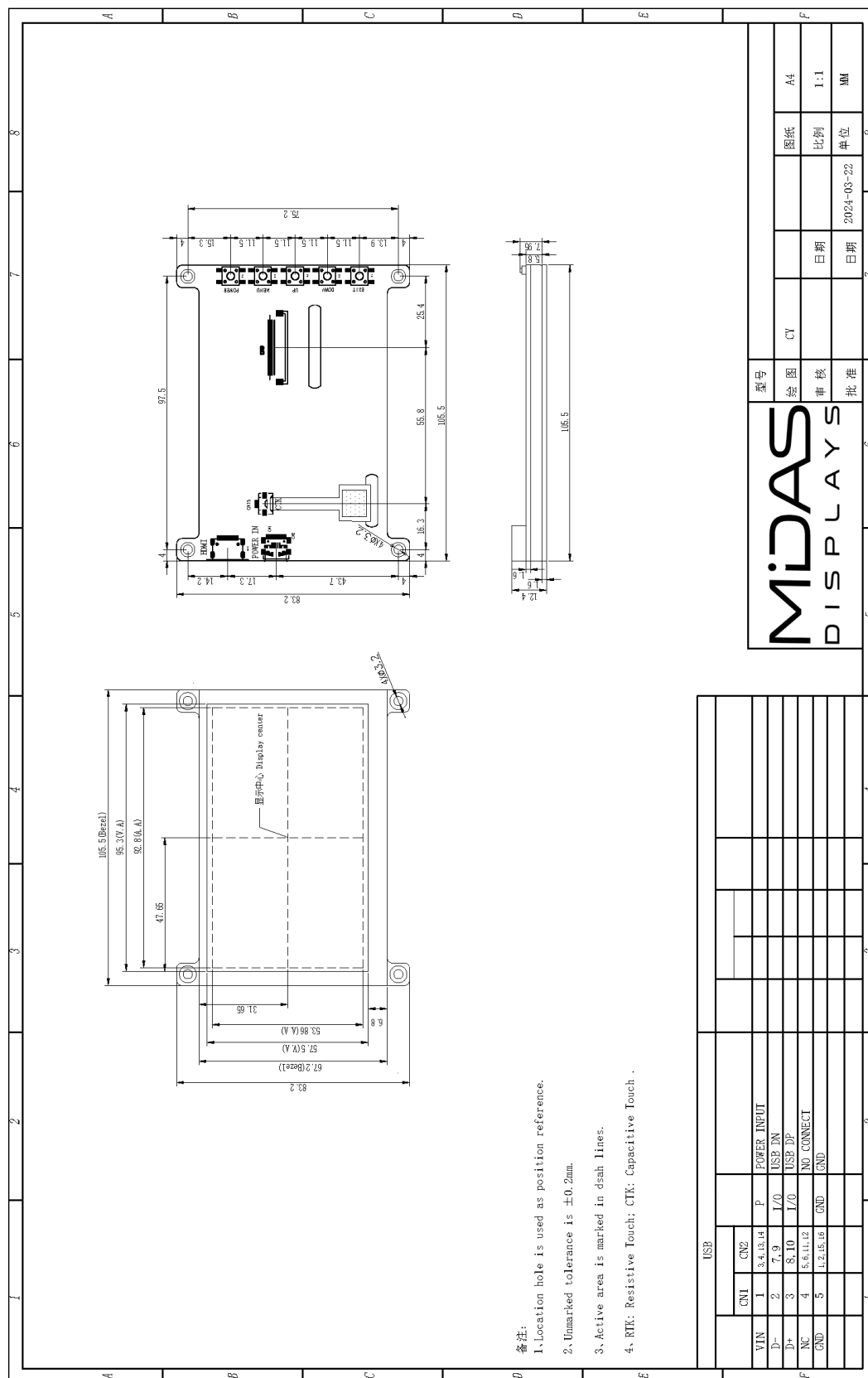


4.5 LCD PANEL INTERFACE CN3(FPC-40PIN-0.5)

NO.	SYMBOL	Function
1	VLED-	LED backlight Cathode
2	VLED+	LED backlight Anode
3	GND	Ground
4	DVDD	Power for panel
5	R0	Red data/LSB
6	R1	Red data
7	R2	Red data
8	R3	Red data
9	R4	Red data
10	R5	Red data
11	R6	Red data
12	R7	Red data/MSB
13	G0	Green data/LSB
14	G1	Green data
15	G2	Green data
16	G3	Green data
17	G4	Green data
18	G5	Green data
19	G6	Green data
20	G7	Green data/MSB
21	B0	Blue data/LSB
22	B1	Blue data
23	B2	Blue data
24	B3	Blue data
25	B4	Blue data
26	B5	Blue data
27	B6	Blue data
28	B7	Blue data/MSB
29	GND	Ground
30	DCLK	Sample clock
31	DISP	Display on/off
32	HS	Horizontal Sync Input
33	VS	Vertical Sync Input
34	DE	Data Input Enable
35	NC	No connection
36	GND	Ground
37	X1	Right electrode – differential analog
38	Y1	Bottom electrode – differential analog
39	X2	Left electrode – differential analog
40	Y2	Top electrode – differential analog



5. CONTROLLER DIMENSIONS



6. OPERATION REQUIREMENT

- (1) Do not pressed and distorted.
- (2) Keep away from static and water.
- (3) Relative humidity : $\leq 80\%$
- (4) Storage temperature: $-20 \sim +60^{\circ}\text{C}$
- (5) Operation temperature: $0 \sim +60^{\circ}\text{C}$



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