Product Specification

Part NO.: **H2TTL50P_60H_V1.1**

Product Code: **A00416**

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PREPARED	CHECKED	APPROVED
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CONTENTS

1.General Description.

H2TTL50P_60H_V1.1 is a general PC display solution, 1 HDMI interface, support 24BIT TTL output, support output format up to 800*480@60Hz、1024*600@60Hz、1280x800@60Hz.

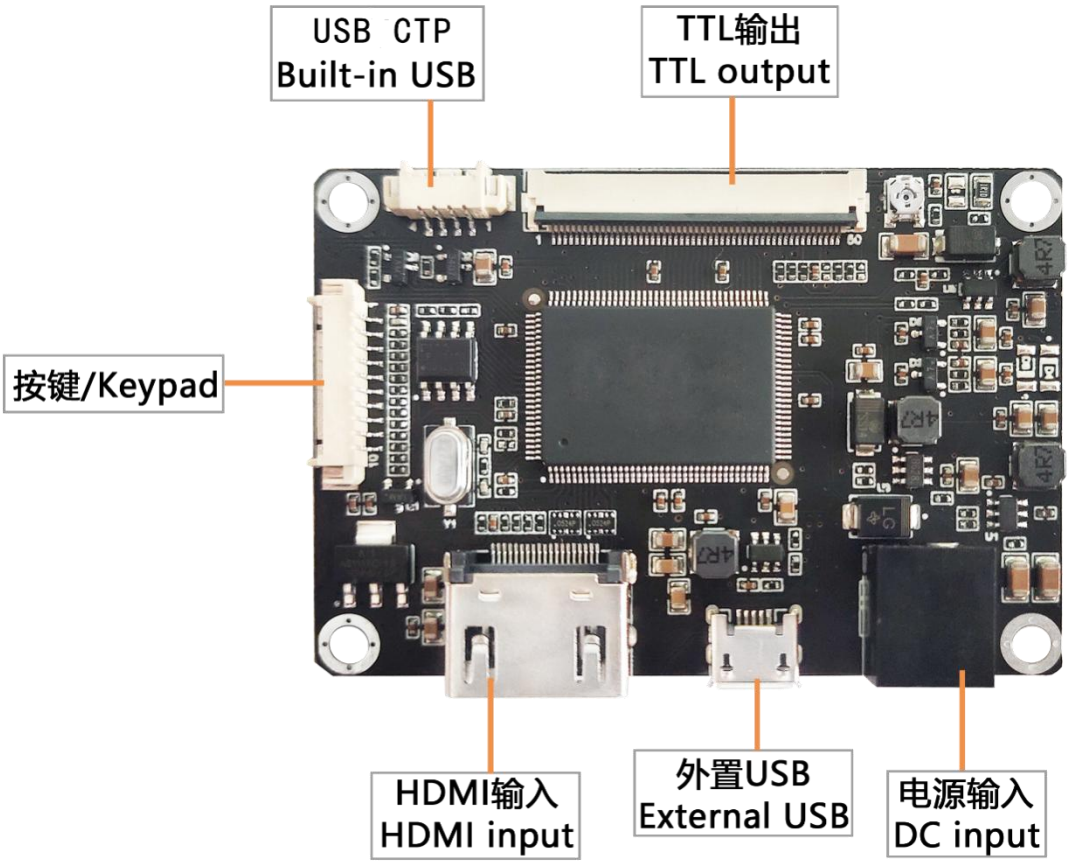
2.Features

In the following table you will find the detailed features

Power input	12V DC input
Signal Input	1 HDMI input
Signal Output	TTL output
Keypad	Power/Menu/Down/Up/Exit/IR, 5 key
Touch function	Capacitive touch USB interface

3.Interface Function Description Diagram

NO.	Description
CN6	Built in USB CTP interface
CN7	TTL output interface
CN1	External 12V DC input interface
CN5	External USB interface
CN3	External HDMI input interface
CN4	Keypad interface



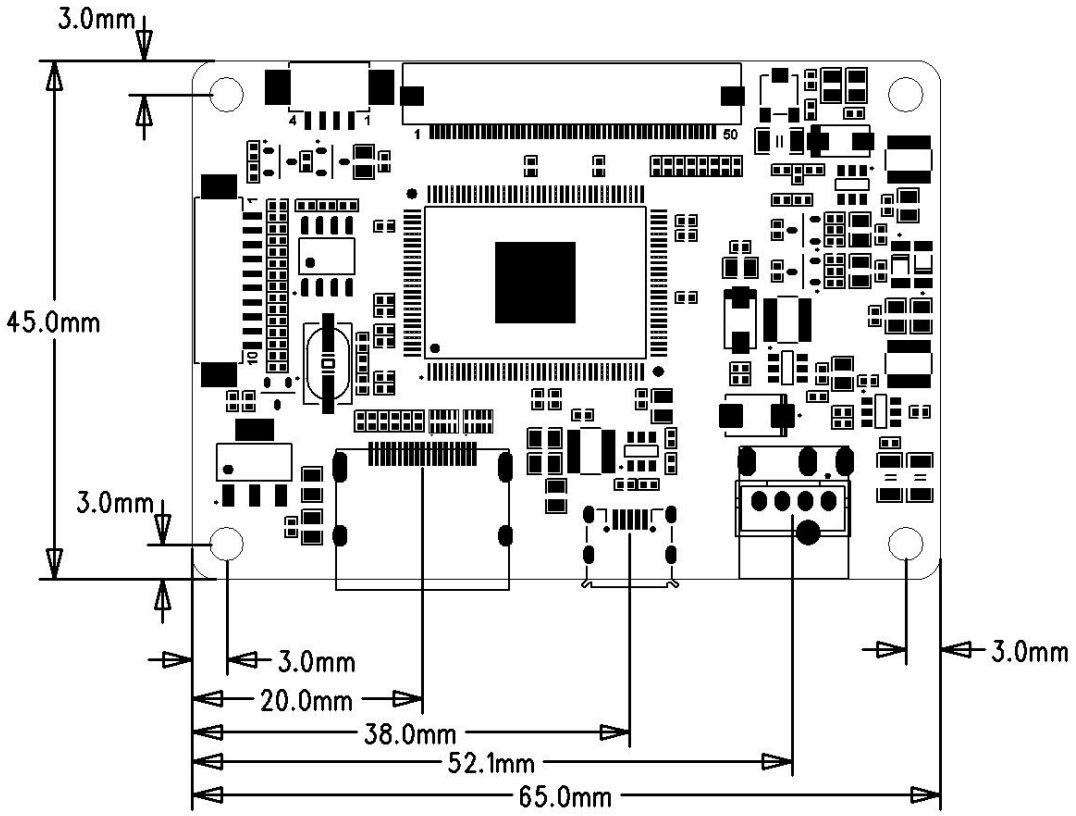
4.Structural Dimension Diagram.

Unit： mm

Height: 6.05mm

Tolerance： ±0.3mm

Fixing holes： R1.5mm*4



5.Interface Definition

1. CN4: Keypad interface

Pin NO.	Pin Name	Description
1	3.3V	Power Supply 3.3V
2	IR	Remote Control Input
3	MENU	Menu Key
4	EXIT	Exit Key
5	DOWN	Down Key
6	UP	Up Key
7	GND	Ground
8	LEDG	LED Green
9	LEDR	LED Red
10	POWER	Power Key

2. CN7: TTL output interface

Pin NO.	Pin Name	Description
1	LED+/NC	LED Backlight Output+ /NO Connect
2	LED+/NC	LED Backlight Output+ /NO Connect
3	LED-/NC	LED Backlight Output- /NO Connect
4	LED-/NC	LED Backlight Output- /NO Connect
5	GND	Ground
6	VCOM	Common Mode Voltage
7	DVDD	Digital Circuit Supply Voltage 3.3V
8	MODE	Mode Selection of Clock Enable/Sync
9	DE	Data Input Enable
10	VS	Vertical Sync Input
11	HS	Horizontal Sync Input
12	B7	Blue Data 7 (MSB)
13	B6	Blue Data 6
14	B5	Blue Data 5
15	B4	Blue Data 4
16	B3	Blue Data 3
17	B2	Blue Data 2
18	B1	Blue Data 1
19	B0	Blue Data 0（LSB）
20	G7	Green Data 7（MSB）
21	G6	Green Data 6
22	G5	Green Data 5
23	G4	Green Data 4
24	G3	Green Data 3
25	G2	Green Data 2
26	G1	Green Data 1
27	G0	Green Data 0（LSB）
28	R7	Red Data 7（MSB）

29	R6	Red Data 6
30	R5	Red Data 5
31	R4	Red Data 4
32	R3	Red Data 3
33	R2	Red Data 2
34	R1	Red Data 1
35	R0	Red Data 0 （LSB）
36	GND	Ground
37	DCLK	Sample Clock Output
38	GND	Ground
39	L/R	Left/Right Display Control
40	U/D	Up/Down Display Control
41	VGH	TFT High Level Threshold
42	VGL	TFT Low Level Threshold
43	AVDD	Analog Circuit Power Supply
44	RESET	Global Reset Pin
45	NC	NO Connect
46	VCOM	Common Mode Voltage
47	DITHB	Jitter Enable Control
48	GND	Ground
49	NC	NO Connect
50	NC	NO Connect

3. CN6: Built in USB CTP interface

Pin NO.	Pin Name	Description
1	VBUS	USB Voltage 5V
2	D-	USB Differential Data Signal -
3	D+	USB Differential Data Signal +
4	GND	Ground

4. CN1: External 12V DC input interface

Pin NO.	Pin Name	Description
1	VCC_12V	12V DC Power Input
2	GND	Ground
3	GND	Ground

5. CN5: External USB interface

Pin NO.	Pin Name	Description
1	VBUS	USB Voltage 5V
2	D-	USB Differential Data Signal -
3	D+	USB Differential Data Signal +
4	ID	NO Connect
5	GND	Ground

6. CN3: External HDMI input interface

Pin NO.	Pin Name	Description
1	DATA2+	HDMI Differential Signal Data 2+
2	DATA2 SHIELD	HDMI Differential Signal Data 2 Shield
3	DATA2-	HDMI Differential Signal Data 2-
4	DATA1+	HDMI Differential Signal Data 1+
5	DATA1 SHIELD	HDMI Differential Signal Data 1 Shield
6	DATA1-	HDMI Differential Signal Data 1-
7	DATA0+	HDMI Differential Signal Data 0+
8	DATA0 SHIELD	HDMI Differential Signal Data 0 Shield
9	DATA0-	HDMI Differential Signal Data 0-
10	CLK+	HDMI Differential Signal Data Clock+
11	CLK SHIELD	HDMI Differential Signal Data Clock Shield
12	CLK -	HDMI Differential Signal Data Clock-

13	CEC	CEC Control
14	NC	NO Connect
15	SCL	Serial Clock Line for Display Data Channel
16	SDA	Serial Data Line for Display Data Channel
17	DDC/CEC GND	Ground
18	+5V POWER	+5V Power Line
19	HOT PLUG	Hot Plug Detect

6.Operation Requirements

- Relative humidity: ⩽ 80%
- Storage temperature: -20~ +70℃
- Operation temperature: 0 ~ +70℃

7.General Precautions.

- Keep the board away from strong electrostatic.
- Disconnect main power if power of panel is incorrect, otherwise you would destroyed the LCD module.
- Avoid dropping metal in the board while it is working.
- Do not push or pull the connector while the board is working.
- Do not disassemble the module.
- If the surface of the main board is dirty, clean it with soft (not wet) cloth.

8.Revision History

Rev.	Date	Note
V1.1	2022.07.13	
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