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CERT. No.: 282Q19070712006

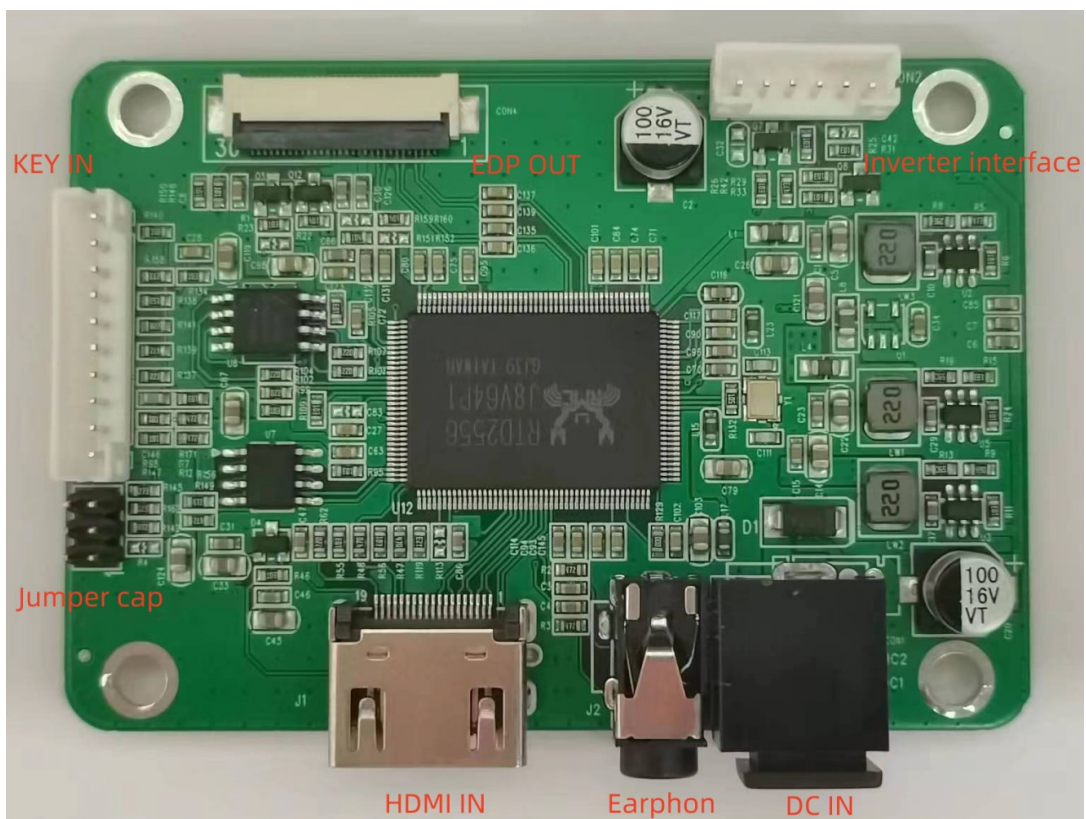
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Product Specification

Model: TBJ156HD-02

HDMI Display Board

This module uses ROHS material



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Contents

1. Record of Revision	2
2. General Specifications	3
3. Electrical Characteristics	3
4. PIN-MAP	4
5. Block Diagram	6
6. Mechanical Drawing	7

1.Record of Revision

Version	Revise Date	Content	Remark
V1.0	2023/03/17	-	-

2. General Specifications

Feature		Spec
Characteristics	Size	-
	LCM Resolution supported(Max)	1920*1080 (Max)
	Pixel Configuration	R.G.B.-Stripe
	Interface	HDMI
	Connect type	Cable
	Key	5key
Mechanical	PCB (W x H)	76*53mm
	LCM connector	30PIN-0.5MM
	HDMI connector	HDMI-019S

3. Electrical Characteristics

Item	Symbol	MIN	Typ	MAX	Unit
Supply Voltage	VDD	10	12	16	V
Direct Current	Idd	420	350	262	mA
Operating Temperature	TOPR	-10	-	60	℃
Storage Temperature	TSTG	-20	-	70	℃

4.PIN-MAP

4.1 HDMI PIN-MAP (J1)

Pin	Signal	Description
1	TMDS Data 2+	TMDS Transition differential signal 2+
2	TMDS Data2 Sh	Data2 Shielding ground
3	TMDS Data 2-	TMDS Transition differential signal 2-
4	TMDS Data 1+	TMDS Transition differential signal 1+
5	TMDS Data1 Sh	Data1 Shielding ground
6	TMDS Data 1-	TMDS Transition differential signal 1-
7	TMDS Data 0+	TMDS Transition differential signal 0+
8	TMDS Data 0 S	Data0 Shielding ground
9	TMDS Data 0-	TMDS Transition differential signal 0-
10	TMDS Clock+	TMDS Transition differential signal Clock+
11	TMDS Clock Sh	Clock Shielding ground
12	TMDS Clock-	TMDS Transition differential signal Clock-
13	CEC	Electronic protocol CEC
14	NC	NC
15	SCL	I2C Clock Line
16	SDA	I2C DATA Line
17	DDC/CEC GND	Data display channel
18	+5V	+5V Power
19	Hot Plug Detec	Hot Plug Detec

4.2 CON3 (Key board) (PH 2.0-10P)

NO 管脚	SYMBOL 板上丝印	DESCRIPTION (描述)
1	GND	Ground(地)
2	K6	NC(空 软件未开启)
3	K5	NENU key (菜单键 27K)
4	K4	EXIT key (退出键 15K)
5	K3	- KEY (减键、音量调节快捷键 8.2K)
6	K2	+ KEY (加键、亮度调节快捷键 4.7K)
7	GND	Ground(地)
8	G	Green led (指示灯绿灯)
9	R	Red led (指示灯红灯)
10	K1	ON/OFF key (开关 220R)

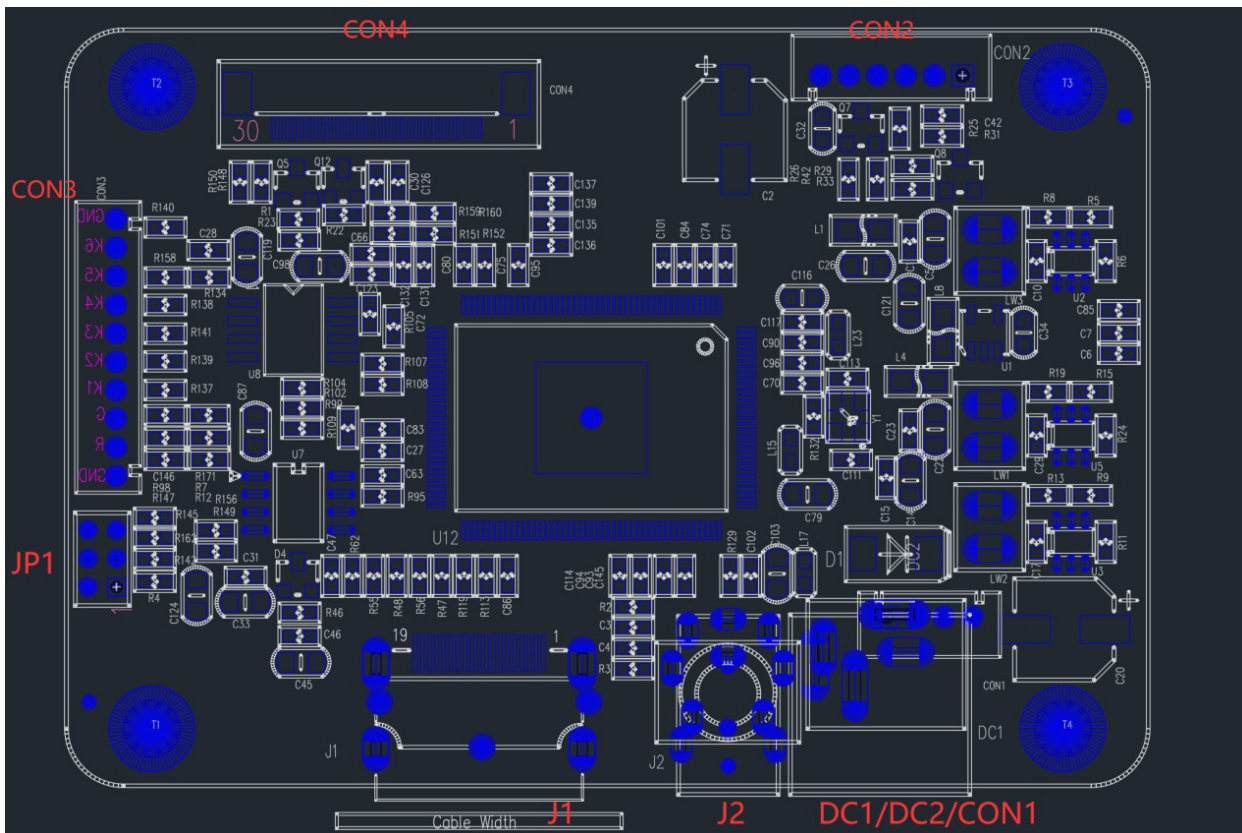
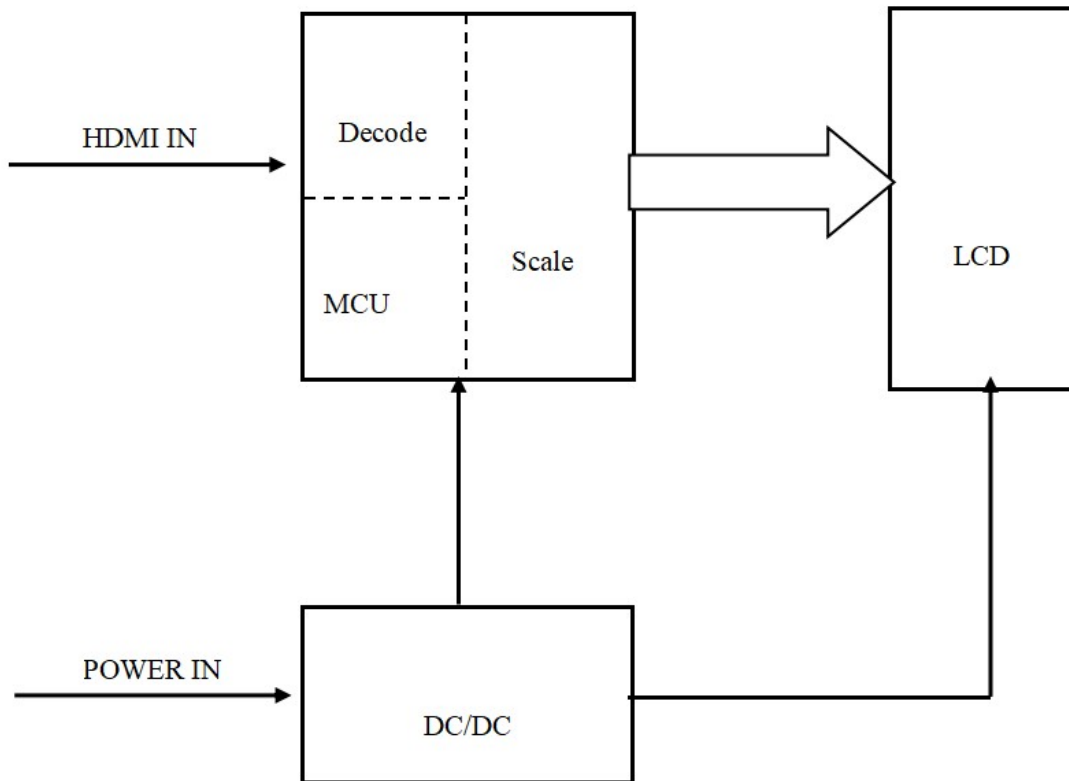
4.3 CON2 (Backlight Inverter interface)(PH 2.0-6P)

Pin No.	Symbol	Function
1	GND	GND
2	GND	GND
3	ADJ	Backlight PWM signal
4	EN	Backlight enable signal
5	12V	Power supply
6	12V	Power supply

4.4 CON4 (LCM PIN-MAP 30 PIN/0.5MM)

NO 管脚	SYMBOL 板上丝印	DESCRIPTION (描述)
1	NC	NC
2	GND	Ground
3	Lane1_N	Complement Signal Link Lane 1
4	Lane1_P	True Signal Link Lane 1
5	GND	Ground
6	Lane0_N	Complement Signal Link Lane 0
7	Lane0_P	True Signal Link Lane 0
8	GND	Ground
9	AUX_CH_P	True Signal Auxiliary Ch
10	AUX_CH_N	Complement Signal Auxiliary Ch
11	GND	Ground
12	LCD_VCC	LCD logic and driver power3.3V
13	LCD_VCC	LCD logic and driver power3.3V
14	NC	NC
15	GND	Ground
16	GND	Ground
17	HPD	HPD signal pin
18	GND	Ground
19	GND	Ground
20	GND	Ground
21	GND	Ground
22	EN	Backlight On/Off
23	ADJ	Backlight adjust for dimming
24	NC	NC
25	NC	NC
26	BL_PWR	Backlight power
27	BL_PWR	Backlight power
28	BL_PWR	Backlight power
29	BL_PWR	Backlight power
30	NC	NC

5. Block Diagram



6. Mechanical Drawing

