

Manufacturer Certificated



CERT. No.: 282Q19070712006

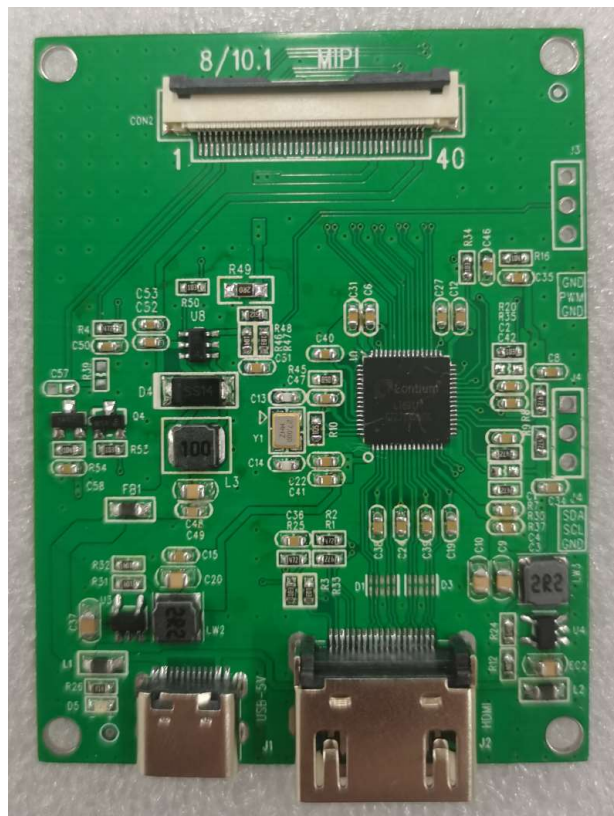
CERT. No.: 282E19070712007

Product Specification

Model: TBJ080HD-01

HDMI Display Board

This module uses ROHS material



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1. Record of Revision

Version	Revise Date	Content	Remark
V1.0	2024/03/17	-	-

2. General Specifications

Feature		Spec
Characteristics	Size	-
	LCM Resolution supported(Max)	800*1280
	Pixel Configuration	R.G.B.-Stripe
	Interface	HDMI
	Connect type	FPC
Mechanical	PCB (W x H)	49.0*65.0mm
	LCM connector	40PIN/0.5mm
	HDMI connector	HDMI-A ,19PIN

3. Electrical Characteristics

Item	Symbol	MIN	Typ	MAX	Unit
Supply Voltage	VDD	4.6	5.0	5.4	V
Direct Current	Idd	-	640	620	mA
Operating Temperature	TOPR	-10	-	60	℃
Storage Temperature	TSTG	-20	-	70	℃

4.PIN-MAP

4.1 (HDMI PIN-MAP)

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 J1:Power supply(tpcy-c)



4.3 J3: backlight adjustment 接口 (J3) PWM $\geq$ 1kHz or $\leq$ 200Hz.

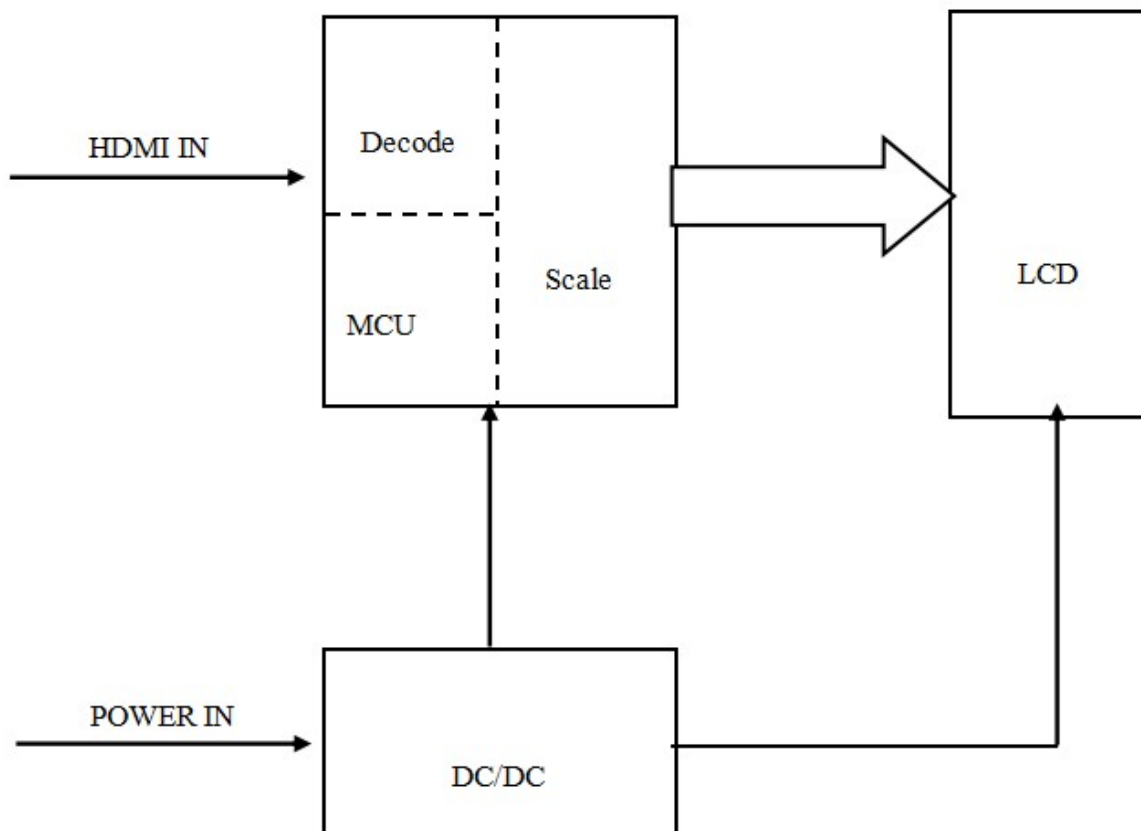
NO 管脚	SYMBOL 板上丝印	DESCRIPTION (描述)
1	GND	Ground (地)
2	ADJ	Brightness adjustment (亮度调节)
3	GND	Ground (地)

4.4 CON2 (LCM) 40P/0.5mm

Pin No.	Symbol	Function
1	VCOM(NC)	No connect
2	VDDIN(3.3V)	Power Voltage for digital circuit 3.3V
3	VDDIN(3.3V)	Power Voltage for digital circuit 3.3V
4	GND	Ground
5	Reset(NC)	Global reset pin(NC)
6	NC	No connection
7	GND	Ground
8	MIPI D0-	-0 MIPI differential data input
9	MIPI D0+	+ 0 MIPI differential data input
10	GND	Ground
11	MIPI D1-	-1 MIPI differential data input
12	MIPI D1+	+ 1 MIPI differential data input
13	GND	Ground
14	MIPI CLK-	- CLK MIPI differential clock input
15	MIPI CLK+	+ CLK MIPI differential clock input
16	GND	Ground
17	MIPI D2-	-2 MIPI differential data input
18	MIPI D2+	+2 MIPI differential data input
19	GND	Ground
20	MIPI D3-	-3 MIPI differential data input
21	MIPI D3+	+3 MIPI differential data input
22	GND	Ground
23	NC	No connection
24	NC	No connection
25	GND	Ground
26	NC	No connection
27	PWMO	PWM Control Signal for LED Driver(IF not used,Please No connect)
28	NC	No connection
29	NC	No connection
30	GND	Ground
31	LED-	LED Cathode
32	LED-	LED Cathode
33	NC	No connection
34	NC	No connection
35	NC	No connection

36	NC	No connection
37	NC	No connection
38	NC	No connection
39	LED+	LED Anode
40	LED+	LED Anode

5. Block Diagram



6. Mechanical Drawing

