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CERT. No.: 282Q19070712006

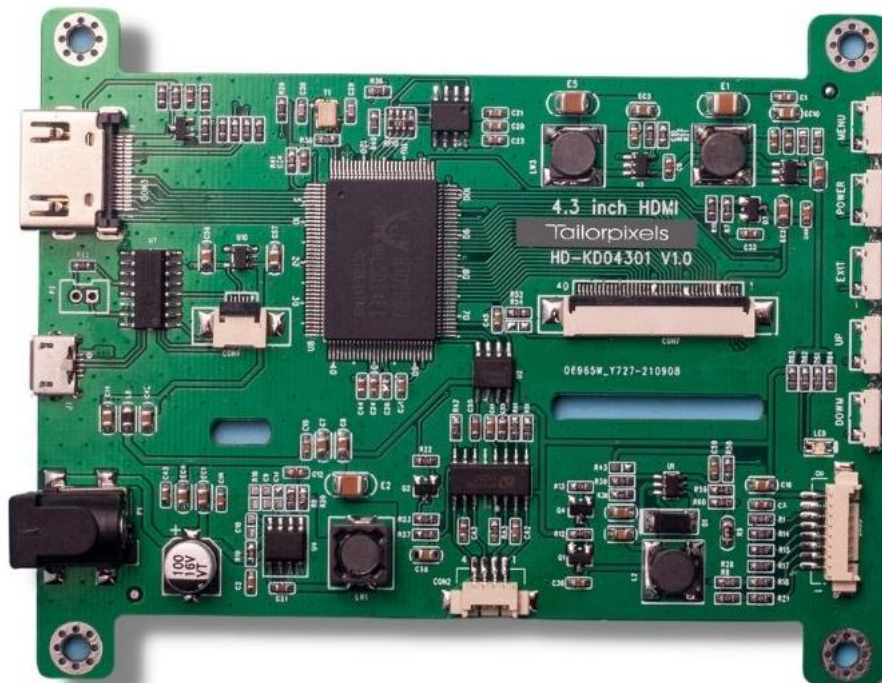
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Product Specification

Model: TBK043HD-01

4.3"(HDMI) Display Board

This module uses RoHS material



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1. Record of Revision

Version	Revise Date	Content	Remark
V1.0	2021/06/16	-	-

2. General Specifications

Feature		Spec
Characteristics	Size	4.3 inch
	LCM Resolution supported	800(horizontal)*480(Vertical)
	Pixel Configuration	R.G.B.-Stripe
	Interface	HDMI
	Connect type	Cable
	USB(CTP)	Micro-USB
	Key	5key+interface
	Audio	support
Mechanical	PCB (W x H x D) (mm)	105.50*83.40*1.6
	LCM connector	40PIN-0.5S
	CTP connector	6PIN-0.5S
	HDMI connector	HDMI-019S
	Key connector	8PIN-1.25S
	Speaker connector	4PIN-1.25S

3. Electrical Characteristics

Item	Symbol	MIN	Typ	MAX	Unit
Supply Voltage	VDD	11.5	12	12.5	V
Direct Current(without LCM)	Idd	-	80	-	mA
Backlight Current	Iled	-	20	-	mA
Operating Temperature	TOPR	-20	-	70	°C
Storage Temperature	TSTG	-30	-	80	°C

4.PIN-MAP

4.1 USB PIN-MAP

Pin	Signal	Description
1	VDD	Power supply(5V)
2	D-	Data-
3	D+	Data+
4	ID	No connected
5	GND	GND

4.2 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

4.3 SPEAKER PIN-MAP

Pin	Signal	Description
1	R+	Right audio channel+
2	R-	Right audio channel-
3	L-	Left audio channel-
4	L+	Left audio channel+

4.4 JW1 DC PIN-MAP

Pin	Signal	Description
1	12V	Power supply(12V)
2	GND	Ground

4.5 KEY PIN-MAP

Pin	Signal	Description
1	DOWN	Menu down key
2	UP	Menu up key
3	EXIT	Menu exit key
4	POWER	Power on/off key
5	MENU	Menu key
6	LED	Status indicator LED
7	GND	Ground
8	3.3V	Power supply for key PCB

4.6 LCM PIN-MAP

Pin	Signal	Description
1	VLED-	Backlight LED Cathode
2	VLED+	Backlight LED Anode.
3	GND	Ground
4	VDD	Power supply
5~12	R0~R7	Data bus
13~20	G0~G7	Data bus
21~28	B0~B7	Data bus
29	GND	Ground
30	DCLK	Dot clock signal input. Latching input data at its rising edge.
31	DISP	Normally pulled high. DISP="1": Normally operation (Default) DISP="0": Timing controller, source driver will turn off ,all output are High-Z.
32	HSYNC	Horizontal sync input. Negative polarity.
33	VSYNC	Vertical sync input. Negative polarity.
34	DE	Data enable input. Active high to enable the input data bus under "DE Mode."
35	NC	No connect
36	GND	System Ground
37	XR(NC)	No connect
38	YD(NC)	No connect
39	XL(NC)	No connect
40	YU(NC)	No connect

4.7 CTP PIN-MAP

Pin	Signal	Description
1	GND	System Ground
2	SDA	I2C Data input and output
3	SCL	I2C Clock input
4	VDD	Power supply
5	INT	Interrupt request to the host
6	RST	Reset pin for CTP

5. Block Diagram

