Tailorpixels

A Professional Manufacturer of Display

Manufacturer Certificated

9001 CERT. No.: 282Q19070712006

14001 CERT. No.: 282E19070712007

Product Specification

Model: TBB30EDLV-02

Multimedia Display Board-EDP/LVDS

This module uses RoHS material

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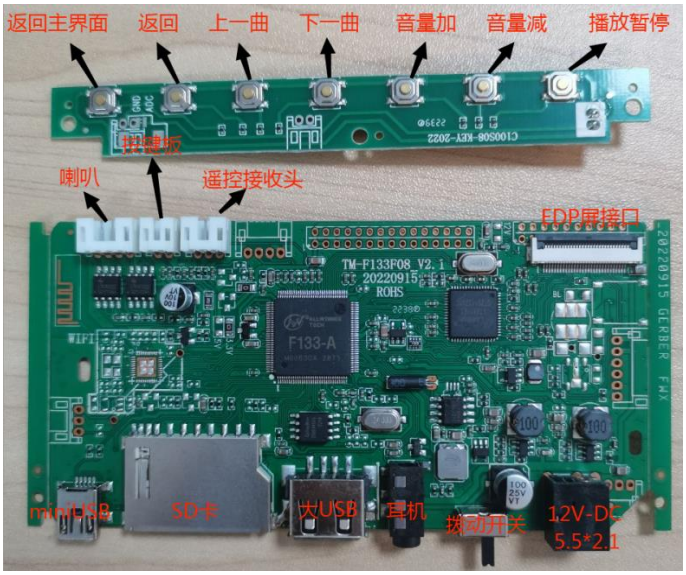


1. Functional Overview

Master chip	F133A
Display interface	EDP/LVDS
Display resolution	Max. 1920*1200
Output port	Headphone holder
	Speaker
	USB
	SD card
	Infrared remote control receiver
UI	Movie
	Picture
	Music
	Clock /calendar
	Set up
Key Function	Previous/Next song
	Volume up/down
	Play / Pause
	Return
	On/off
Set function	Timer switch
	Screen rotation
	Play order selection
	Play ratio selection
	Brightness selection
	Alarm settings
Image Format	BMP、JPG、JPEG、GIF、MAX
Music format	Full format audio
Video support	1920*1200 decoding; 60fps (frame), supports horizontal and vertical screen video playback.
Language	20 common languages

2. Electrical Characteristics

At the ambient temperature of 25°C

Item	Condition	MIN.	TYP.	MAX.	Unit	Note
Supply Voltage (5V)		11.5	12.0	12.5	VDC	
Current Consumption (5V)	Board Only	100	110	130	mA	
Current Consumption (5V)	With 15.6 inch LCM	-	430	600	mA	Reference

3. Absolute Maximum Ratings

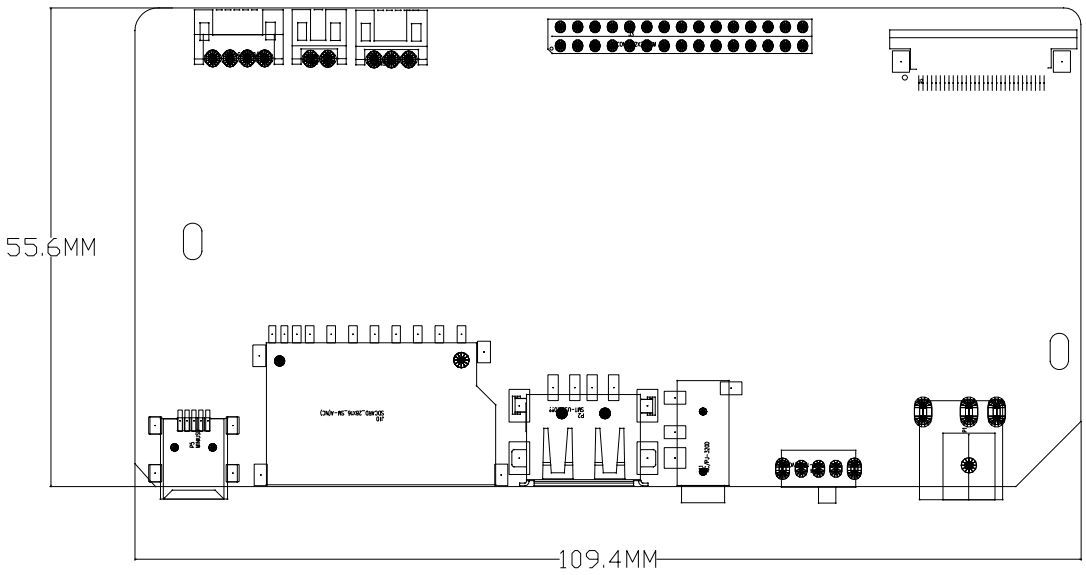
Item	Symbol	Min.	Max.	Unit	Note
Supply Voltage	Vin (5 V)	11	12	13	1, 2,3
Storage Temperature	TSt	0	+60	°C	
Operating Temperature	TOp	-10	+70	°C	

Note (1) Within operating temperature range.

Note (2) Supply voltage limits are for the TBB30EDLV-02

Note (3) Permanent damage to the device may occur if maximum values are exceeded.

4. Mechanical Dimensions



Item	Description	Remarks
Length	109.4mm	± 0.5mm
Width	55.6 mm	± 0.5 mm
Height	10.4 mm	+ 0.3 mm

5. EDP Interface

Terminal	Symbol	Functions
1	NC	No Connection
2	H_GND	Ground
3	LANE1_N	eDP RX channel 1 negative
4	LANE1_P	eDP RX channel 1 positive
5	H_GND	Ground
6	LANE0_N	eDP RX channel 0 negative
7	LANE0_P	eDP RX channel 0 positive
8	H_GND	Ground
9	AUX_CH_P	eDPAUX CH positive
10	AUX_CH_N	eDPAUX CH negative
11	H_GND	Ground
12	LCD_VCC	Power Supply, 3.3V (typ.)
13	LCD_VCC	Power Supply, 3.3V (typ.)
14	LCD_Self_Test	Panel self test enable
15	H_GND	Ground
16	H_GND	Ground
17	HPD	Hot plug detect output
18	BL_GND	LED Ground
19	BL_GND	LED Ground
20	BL_GND	LED Ground
21	BL_GND	LED Ground
22	BL_ENABLE	LED enable pin(+3.3V Input)
23	BL_PWM	System PWM Signal Input
24	NC	No Connection
25	NC	No Connection
26	BL_POWER	LED Power Supply 5V-21V
27	BL_POWER	LED Power Supply 5V-21V
28	BL_POWER	LED Power Supply 5V-21V
29	BL_POWER	LED Power Supply 5V-21V
30	NC	No Connection

6. LVDS Interface

Terminal	Symbol	Functions
1-3	VCC	Power Supply
4-6	GND	Power Ground
7	RX00-	LVDS signal
8	RXOO+	LVDS signal
9	RX01-	LVDS signal
10	RXO1+	LVDS signal
11	RX02-	LVDS signal
12	RX02+	LVDS signal
13-14	GND	Power Ground
15	RX0COLK-	LVDS clock signal
16	RX0COLK+	LVDS clock signal
17	RXO3-	LVDS signal
18	RX03+	LVDS signal
19	RX00-	LVDS signal
20	RX00+	LVDS signal
21	RXO1-	LVDS signal
22	RX01+	LVDS signal
23	RX02-	LVDS signal
24	RX02+	LVDS signal
25-26	GND	Power Ground
27	RX0COLK-	LVDS clock signal
28	RX0COLK-	LVDS clock signal
29	RXO3-	LVDS signal
30	RX03+	LVDS signal