

VS DISPLAY TECHNOLOGY (HK) LTD

SPECIFICATION FOR LCD MODULE

Model No.: VS-RTD2665H-V1

ORGANIZED BY	CHECKED BY	APPROVED BY
RAJU PAU	JOHNSON	CRISTAL RAMY

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**518100 11B No.1, JINHUI BUILDING, BAOAN DISTRICT, SHENZHEN
CITY, GUANGDONG PROVINCE, CHINA.**

URL: WWW.VSLCD.COM

1、General Description

The main chip uses the latest chip RDT2556-CG of Realtek Semiconductor, which can complete the output from the PC Digital HDMI signal to the LCD module, can support the conversion of eDP signal, the program design is mainly used for Matching TFT LCD PANEL for maximum resolution up to WUXGA analog R, G, B input.

The board support up to 24bit, up to 16.7 million pixels, ADC, frequency up to 165MHz.

The board support dynamic contrast control, headphone input and Digital volume control simultaneously.

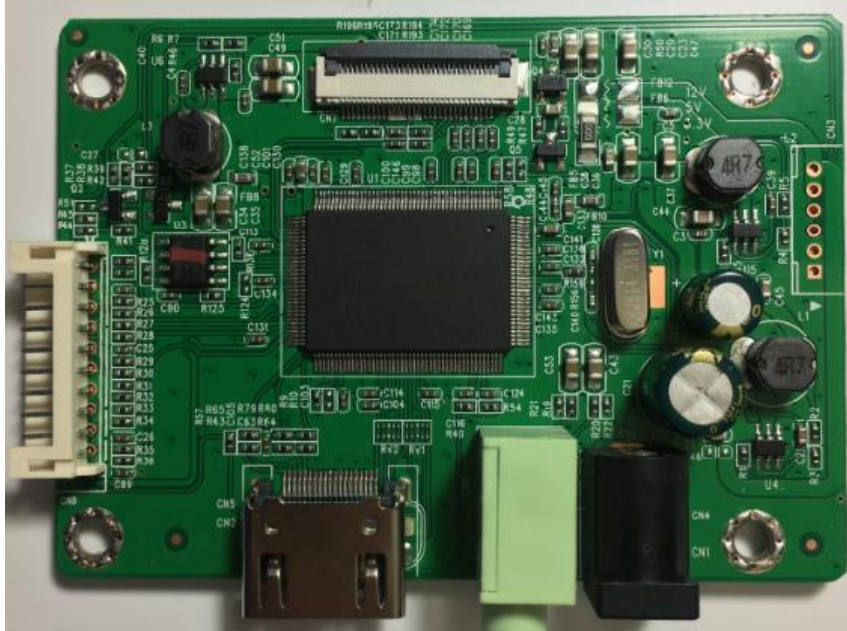
The board up to 1920x1200 and support function of HDCP

2、Feature

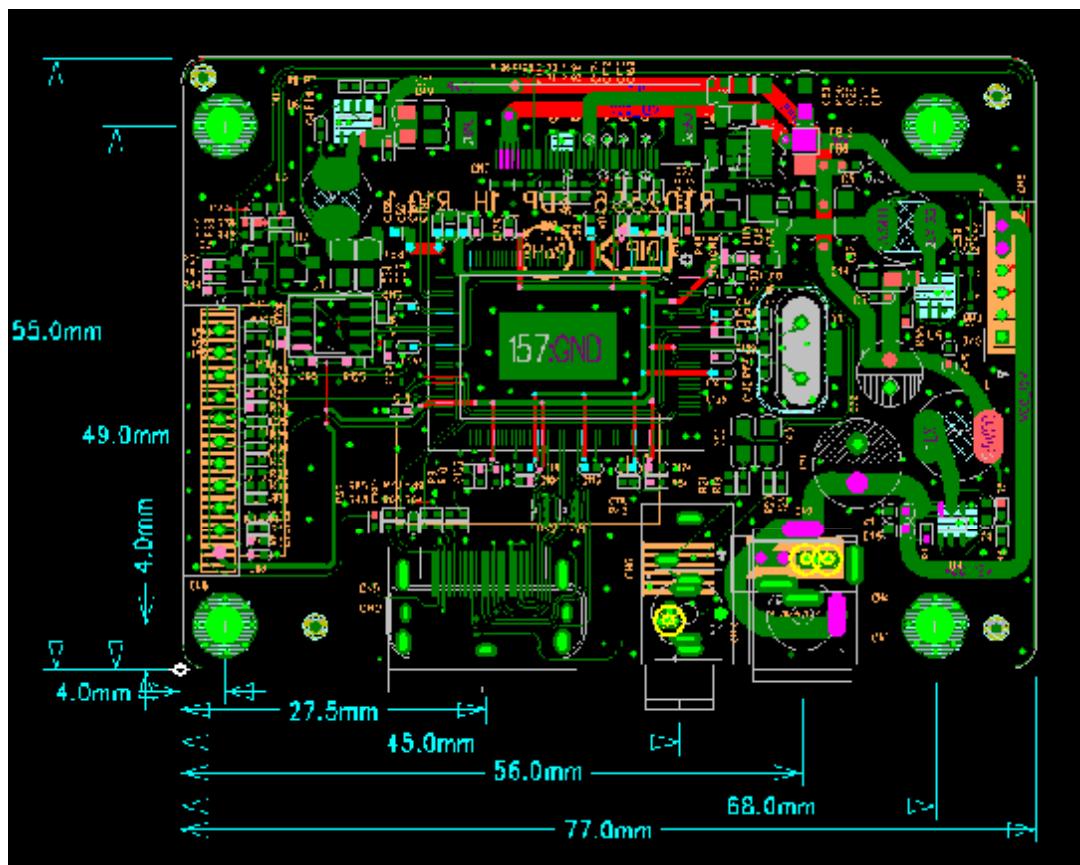
CHIP	RTD2556-CG		
	Input	HDMI	HDMI (T.M.D.S)
	Output	PANEL Interface	0.5mm Pitch 30PIN FFC Connector
	Output	Earphone	Standby
Power	Input	12V DC	
	To Panel	3.3V/5V/12V Optional	
	Operateing	Normal Standby	
	Standby Power	<0.3W	
	OSD Menu	Brightness Contrast Auto Adjust H/V Postion and so on	
	OSD Language	Chinese English	
	Keyboard	POWER、LEFT、RIGHT、AUTO、MENU、UP、DOWN	

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3、Photo And Dimension Size



1、PCB $H \leq 16\text{mm}$ 2、PCB $L = 77.0\text{ mm}$ 3、PCB $W = 55.0\text{mm}$



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4、Input/Output Connector

◆CN7 (SMD 0.5mm 30FFC Connector):EDP Output Port

Pin	Symbol	Description
1	NC	No Connection
2	LED_VCC	BL POWER
3	LED_VCC	BL POWER
4	LED_VCC	BL POWER
5	LED_VCC	BL POWER
6	NC	No Connection
7	NC	No Connection
8	LED_PWM	LED Dimming Control
9	LED_EN	LED BL_Enable control
10	GND	GROUNP
11	GND	GROUNP
12	GND	GROUNP
13	GND	GROUNP
14	HPD	Hot Plug Detect
15	GND	GROUNP
16	GND	GROUNP
17	NC	No Connection
18	VCCS	Power Supply
19	VSSC	Power Supply
20	GND	GROUNP
21	AUX-	Complement Signal-Auxiliary Channel
22	AUX+	True Signal-Auxiliary Channel
23	GND	GROUNP
24	ML0+	True Signal-Main Lane 0
25	ML0-	Complement Signal-Lane 0
26	GND	GROUNP
27	ML1+	True Signal-Main Lane 1
28	ML1-	Complement Signal-Lane 1
29	GND	GROUNP
30	NC	No Connection

◆CN3 (PH2.0mm-6AW) : Backlight&Inverter Port

Pin	Symbol	Description
1	+12V	+12VDC
2	+12V	+12VDC

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3	BACL_EN	Backlight Enable
4	BACL_ADJ	Backlight Adjust
5	GND	GND
6	GND	GND

CN5 (SMT HDMI,) : HDMI Port

Pin	Symbol	Description
1	DATA2+	DATA
2	GND	GND
3	DATA2-	DATA
4	DATA1+	DATA
5	GND	GND
6	DATA1-	DATA
7	DATA0+	DATA
8	GND	GND
9	DATA0-	DATA
10	DCLK+	CLOCK
11	HDMI_DET	INPUT DETECT
12	DCLK-	CLOCK
13	NC	NC
14	NC	NC
15	HDMI_SCL	DDC CLOCK
16	HDMI_SDA	DDC CLOCK
17	GND	GND
18	HDMI5V	HDMI5V INPUT
19	HDMI_HPD	HPD DETECT

◆ CN8 (PH2.0mm-10AW): Keyboard

Pin	Symbol	Description
K1	DOWN	
K2	UP	
K3	MENU	

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K4	AUTO	
K5	RIGHT	
K6	LEFT	
K7	GND	
K8	LED-G	
K9	LEG-R	
K10	POWER	

◆CN3 EarPhone Port

CN3 (PC Audio Input) JACK-3.6 φ PHONE PJ-358 5P H=12mm,

5、Condition

Operation Temp. : 0~+50 °C

Storage Temp. : -20~+60 °C

Operation humidity: 10%.—80%RH

Storage humidity : 10%.—93%RH