



深圳显昶光电科技有限公司

Shenzhen Xianyang Optoelectronic Technology Co., Ltd

XY2660-V1. 0RB

SPECIFICATION

产品规格书

product model 产品型号: RTD2660-V1. 0RB

product type 产品类型: 多功能 LCD-PC驱动板

Multi-function

LCD-PC AD board

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版本	描述	修改日期
VER2. 6	发布	2021-06-28



目录

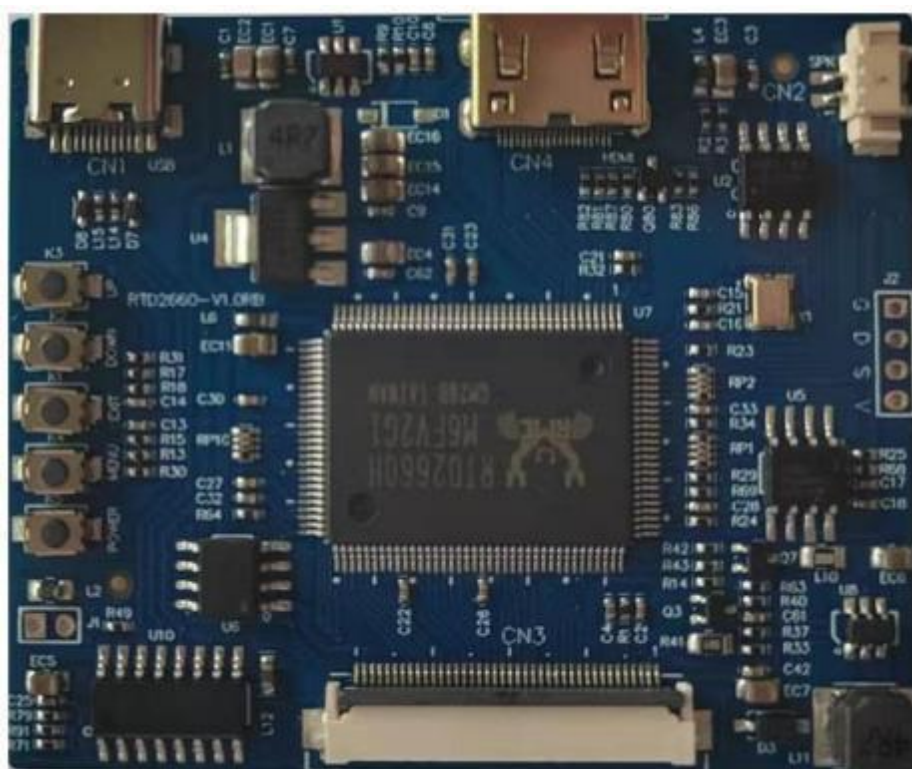
1. GENERAL DESCRIPTION (整体概述)	3
2. FUNCTION LAYOUT (产品外观图)	3
3. FEATURES (产品特征)	4
4. INTERFACE DEFINITION (接口定义)	5
4.1 USB IN CONNECTOR(外接 USB 输入) CN1 TYPE-C	5
4.2 HDMI IN CONNECTOR (HDMI 信号输入) CN4 (MINI-HDMI)	5
4.3 SPEAKER INTERFACE (喇叭接口) CN2 (2PIN1.25)	5
4.4 KEY (按键) K1, K2, K3, K4, K5 (SMD2J3*5)	5
4.5 LCD PANEL INTERFACE (液晶屏接口) CN3 (FPC-50PIN-0.5)	6
5. CONTROLLER DIMENSIONS (板卡结构图)	8
6. OPERATION REQUIREMENT (操作要求)	9

1. GENERAL DESCRIPTION (整体概述)

XY2660-V1.0RB is a 4.0-inch LCD display driver board; Support HDMI input; Support I2S digital audio signal input and speaker output; Support capacitive touch screen .

XY2660-V1.0RB 是一个 4.0 寸 LCD 显示驱动板；支持 HDMI 输入；支持 I2S 数字音频信号输入以及扬声器输出；支持电容触摸屏。

2. FUNCTION LAYOUT (产品外观图)



(The color of actual item may vary and the image is only for reference.)

实物颜色可能与此图有出入，此图仅供参考



3. FEATURES (产品特征)

Below you will find the detailed features.

MAIN CHIPSET 主芯片	XY2660H		
OSD LANGUAGE OSD 语言	Chinese, English, (French, Spanish, Italian, German, Portuguese, Dutch, Korean) (Option) 中文, 英语 (法语, 西班牙语, 德语, 日语)		
VIDEO INPUT 视频输入	PC-RGB	Format	Up to 1920*1080@50HZ
		Color	16bit, 24bit, 32bit
	HDMI	Format	Up to 1920*1080@50HZ
		Operating Speed	155MHz
AUDIO OUTPUT 音频输出	Frequency response	217Hz-20KHz @±3dB (1KHz 0dB reference signal)	
	Output power	2×1.2W (4Ω) THD+N<10%1KHz (Audio Input: 0.5V _{RMS})	
TOUCH	Interface	USB	
	Touch Panel	capacitive touch panel	
POWER TO PANEL 驱屏电压	3.3V		
Management 电源管理	Standby Power Consumption < 0.2W (Board Only) 待机功耗< 0.2W (仅主板)		
KEY FUNCTIONS 按键功能	MENU, UP, DOWN, EXIT, POWER 菜单, 增加, 减小, 退出, 电源		



4. INTERFACE DEFINITION (接口定义)

4.1 USB IN CONNECTOR(外接 USB 输入) CN1 TYPE-C

此插座为触摸控制的电脑接口 (This socket is a computer interface of touch controlled)

NO. (管脚)	SYMBOL 板 上丝印	DESCRIPTION (描述)
CN1		
2, 11	5V	+5V power drain from host USB port (+5V USB 电源)
5, 7	D-	USB bus signal (USB 总线信号)
6, 8	D+	USB bus signal (USB 总线信号)
1, 12	GND	signal ground(信号地)
OTHER	NC	No connection

4.2 HDMI IN CONNECTOR (HDMI 信号输入) CN4 (MINI-HDMI)

NO. 管脚	SYMBOL 板上丝印	DESCRIPTION (描述)
1-19	HDMI-19	MINI HDMI standard interface (MINI HDMI 标准接口)

4.3 SPEAKER INTERFACE (喇叭接口) CN2 (2PIN1.25)

此部件备选 This part is optional

NO. (管脚)	SYMBOL 板 上丝印	DESCRIPTION (描述)
CN2		
1	V0+	Positive audio channel out(音频通道输出+)
2	V0-	Negative audio channel out(音频通道输出-)

4.4 KEY (按键) K1, K2, K3, K4, K5 (SMD2J3*5)

此部件备选 This part is optional

NO. 管脚	SYMBOL 板上丝印	DESCRIPTION 描述
K1	EXIT	EXIT Key (退出键)
K2	DOWN	DOWN Key (DOWN 键)
K3	UP	UP Key (UP 键)
K4	MENU	MENU Key (菜单键)
K5	POWER	POWER Key (关机键)



XY2660-V1.0RB

4.5 LCD PANEL INTERFACE (液晶屏接口) CN3 (FPC-40PIN-0.5)

NO. 管脚	SYMBOL 板上丝印	I/O	Function	Remark
1	VLED+	P	Power for LED backlight (Anode)	
2	VLED-	P	Power for LED backlight (Cathode)	
3	VLED-	P	Power for LED backlight (Cathode)	
4	GND	P	Power ground	
5	DVDD	P	Power for Panel	
6	RESET	I	Global reset pin.	
7	NC	-	No connection	
8	NC	-	No connection	
9	SDA	I	SPI Data signal	
10	SCK	I	SPI Clock signal	
11	CS	I	SPI Chip select signal	
12	DCLK	I	Sample clock	
13	DE	I	Data Input Enable	
14	VS	I	Vertical Sync Input	
15	HS	I	Horizontal Sync Input	
16	B0	I	Blue data (LSB)	
17	B1	I	Blue data	
18	B2	I	Blue data	
19	B3	I	Blue data	
20	B4	I	Blue data	
21	B5	I	Blue data (MSB)	
22	G0	I	Green data (LSB)	
23	G1	I	Green data	
24	G2	I	Green data	
25	G3	I	Green data	
26	G4	I	Green data	
27	G5	I	Green data (MSB)	
28	R1	I	Red data (LSB)	
29	R2	I	Red data	
30	R3	I	Red data	
31	R4	I	Red data	
32	R5	I	Red data(MSB)	
33	R6	I	Red data	
34	GND	P	Power Ground	



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XY2660-V1.0RB

35	INT	I	Capacitive touch panel SDA(电	
36	SDA	I	Capacitive touch panel SDA(电	
37	SCL	I	Capacitive touch panel SDA(电	
38	RST	I	Capacitive touch panel SDA(电	
39	DVDD	P	Power for Panel	
40	GND	P	Power Ground	