

APPROVAL SHEET

Product Type: OBLS_1106 V3.0

Customer: _____

Part No: C02-VDD1010001-R

Date Issued: 2021-09-28

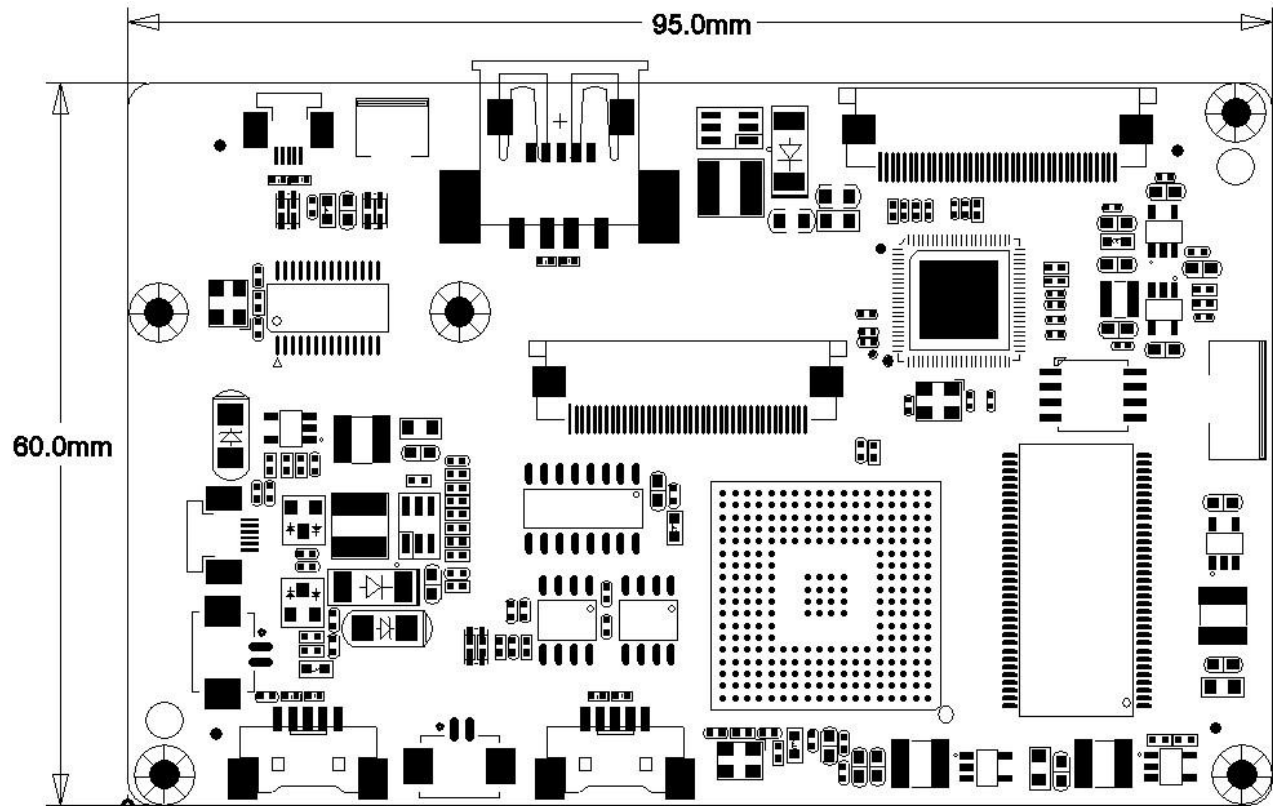
Confirmed	Approved	Signature

Customer Confirm

Confirmed	Approved	Signature

Note: No any notice for update.

I. Main Board Size(mm)

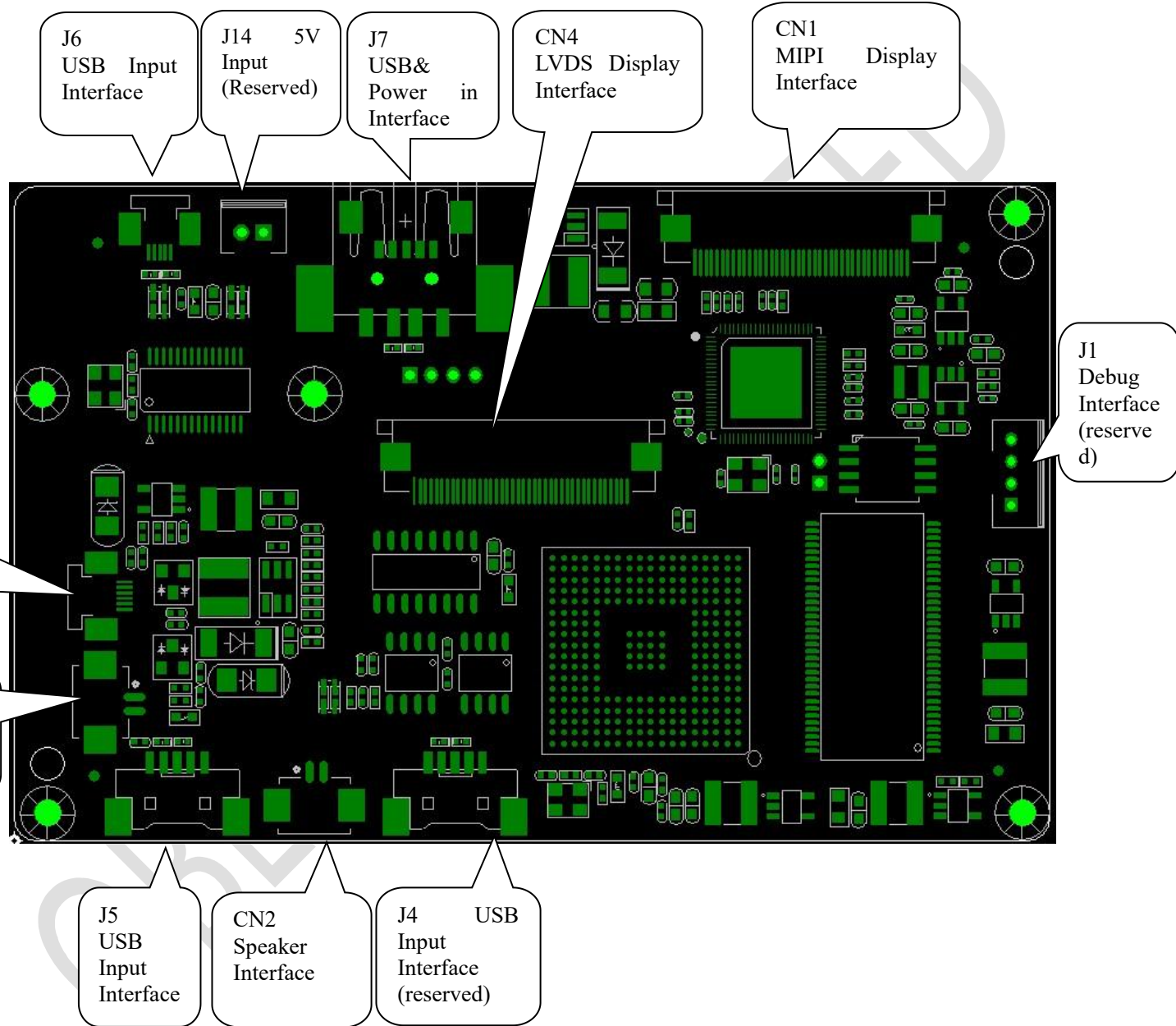


◆ Control Board PCB Size

- 1、 Heights(PCB Thickness + Highest Part Height) \leq 9mm
- 2、 PCB Length: 95mm
- 3、 PCB Width: 60mm
- 4、 PCB Board Thickness: 1.2mm

◆ Screw hole specification: 2.5mm diameter screw hole

II. A/D Driver Board Pictures(Interface)



III. Input /output Define and Electronics Requires

◆J6 (FPC-0.5-5P, SMD horizontal connection): USB Input Interface

Pin No.	Define	Description
1	GND	GND
2	NC	Null
3	USB+	USB+ Signal
4	USB-	USB- Signal
5	+5V	+5V Power

◆J14 (DIP-2.0-2P), 5V Input Interface(Reserved)

Pin No.	Define	Description
1	GND	Ground
2	5V	+5V Power

◆J7 (SMT-USB-A, SMD horizontal connection): USB Input Interface

Pin No.	Define	Description
1	GND	GND
2	DP-IN	USB+ Signal
3	DM-IN	USB- Signal

4	+5V	USB +5V Power
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◆CN4 (FPC-0.5-40P, SMD clamshell horizontal bottom connection): LVDs

Display Panel Interface

Pin No.	Define	Description
1	VCOM	VCOM Voltage
2	VDD	LCD panel Power(+3.3V)
3	VDD	LCD panel Power(+3.3V)
4	NC	NULL
5	NC	NULL
6	NC	NULL
7	GND	Ground
8	RX0-	LVDS 0- Signal
9	RX0+	LVDS 0+ Signal
10	GND	Ground
11	RX1-	LVDS 1- Signal
12	RX1+	LVDS 1+ Signal
13	GND	Ground
14	RX2-	LVDS 2- Signal
15	RX2+	LVDS 2+ Signal
16	GND	Ground

17	RXC-	LVDS Clock- Signal
18	RXC+	LVDS Clock+ Signal
19	GND	Ground
20	RX03-	LVDS 3- Signal
21	RX03+	LVDS 3+ Signal
22	GND	Ground
23	NC	NULL
24	NC	NULL
25	GND	Ground
26	NC	NULL
27	NC	NULL
28	NC	NULL
29	AVDD	AVDD Voltage
30	NC	NULL
31	LED-	LED Backlight Power -
32	LED-	LED Backlight Power -
33	NC	NULL
34	NC	NULL
35	VGL	VGL Voltage
36	NC	NULL
37	NC	NULL

38	VGH	VGH Voltage
39	LED+	LED Backlight Power +
40	LED+	LED Backlight Power +

◆CN6(FPC-0.5-40P, SMD clamshell horizontal bottom connection): MIPI LCD

Panel Interface

Pin No.	Define	Description
1	NC	NULL
2	VDDPANEL	LCD panel Power(+3.3V)
3	VDDPANEL	LCD panel Power(+3.3V)
4	GND	Ground
5	PANELRET	PANEL RESET
6	NC	NULL
7	GND	Ground
8	MIPI-D0P	MIPI 0+ Signal
9	MIPI-D0N	MIPI 0- Signal
10	GND	Ground
11	MIPI-D1P	MIPI 1+ Signal
12	MIPI-D1N	MIPI 1- Signal
13	GND	Ground
14	MIPI-CLKP	LVDS CLOCK+ Signal

15	MIPI-CLKN	LVDS CLOCK- Signal
16	GND	Ground
17	MIPI-D2P	MIPI 2+ Signal
18	MIPI-D2N	MIPI 2- Signal
19	GND	Ground
20	MIPI-D3P	MIPI 3+ Signal
21	MIPI-D3N	MIPI 3- Signal
22	GND	Ground
23	NC	NULL
24	NC	NULL
25	GND	Ground
26	NC	NULL
27	NC	NULL
28	NC	NULL
29	NC	NULL
30	GND	Ground
31	VLED-	LED Backlight Power -
32	VLED-	LED Backlight Power -
33	NC	NULL
34	NC	NULL
35	NC	NULL

36	NC	NULL
37	NC	NULL
38	NC	NULL
39	VLED+	LED Backlight Power +
40	VLED+	LED Backlight Power +

◆J1(DIP-2.0-2P): Debug Interface(**Reserved**)

Pin No.	Define	Description
1	GND	Ground
2	DP	Debug DP Signal
3	DM	Debug DM Signal
4	+5V	+5V Power

◆J4(SMT-1.25-5P ultra thin): USB Input Interface(**Reserved**)

Pin No.	Define	Description
1	GND	Ground
2	NC	NULL
3	DP	Debug DP Signal
4	DM	Debug DM Signal
5	+5V	+5V Power

◆**CN2(SMT-1.25-2P ultra thin): Speaker Output Interface**

Pin No.	Define	Description
1	SP-	Speaker- Signal
2	SP+	Speaker+ Signal

◆**J5(SMT-1.25-5P ultra thin): USB Input Interface**

Pin No.	Define	Description
1	GND	Ground
2	NC	NULL
3	DP	Debug DP Signal
4	DM	Debug DM Signal
5	+5V	+5V Power

◆**CN4(SMT-1.25-2): Mic Input Interface**

Pin No.	Define	Description
1	MIC+	Micphone+ Signal
2	MIC-	Micphone- Signal

◆**J2(FPC-0.5-6P,SMD horizontal connection): Key Interface**

Pin No.	Define	Description
1	BL_ON	Backlight On/Off

2	DOWN	Backlight Brightness-
3	UP	Backlight Brightness+
4	NC	NULL
5	GND	Ground
6	5V	+5V Power

IV. Transport, Storage, Use Details

In order to ensure the normal use of this product and prevent accidents such as electric shock or fire, please read and understand all usage requirements and operating procedures before using this product. Strictly comply with the following requirements:

1. The DC Power input voltage required by this product is +12V, the error of +12V is not more than +/-0.5V, and the current depends on the selected LED screen and the power of the whole machine.
2. Pay attention to good ventilation and heat dissipation. Do not place it in a closed non-conducting shell or box, and do not allow direct sunlight or other heat sources to bake.
3. Pay attention to avoid excessive humidity and excessive dust, so as to avoid circuit corrosion and cause failure.
4. When assembling, pay attention to reserve a certain space to provide air convection heat dissipation on the surface of the board, and to prevent electrical conductors (such as fixed iron plates such as drive boards and high-voltage boards) and board components from contacting and short-circuiting.
5. When assembling, pay attention to prevent the drive plate from bending and deforming due to extra pressure.
6. When assembling, pay attention to the correct electrical connection of the driver board,

LED screen, key board and other components, and select the correct working voltage of the LED screen (too low will display abnormally, and too high will burn the LED screen), and then check it correctly. Electricity.

7. The program on the driver board must match the corresponding LED screen. A software generally supports more than a dozen kinds of LED screens.

8. When assembling the board, pay attention to electrostatic protection, and avoid short-circuit and damage to the board by static electricity on your hands.

9. All input and output interfaces need to be operated in the case of power failure (plug connectors).

10. This product is suitable for general commercial use and household use. The operating environment temperature: 0 ~ +45°C, relative humidity: ≤90%.