

SYSOLUTION

LCD Controller L20

Product Specifications

Version: Ver.1.2

Statement

Dear user friend, thanks for choosing Shanghai Xixun Electronic Technology Co., Ltd. (hereinafter referred to as Xixun Technology) as your LED advertising equipment control system. The main purpose of this document is to help you quickly understand and use the product. We strive to be precise and reliable when writing the document, and the content may be modified or changed at any time without notice.

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Update Record

No.	Version	Remark	Date
1	Ver.1.0	Initial Release	2020.04.01
2	Ver.1.1	Parameters change	2020.11.16
3	Ver.1.2	Content updates	2022.05.26

Note: The contents of the document are subject to change without notice.

Product Introduction

The L20 panel integrates multimedia decoding, LCD driver, Ethernet, HDMI, WIFI, 4G, and Bluetooth in one, supports most of the current popular videos and picture format decoding, supports HDMI video output / input, dual 8 / 10-bit LVDS The interface and EDP interface can drive a variety of TFT LCD displays, greatly simplifying the whole machine system design. The TF card and the SIM card seat with lock are more stable and are very suitable for high-definition network playback box, video advertising machine and frame advertising machine.

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Functions

- High integration: Integrate USB / LVDS / EDP / HDMI / Ethernet / WIFI / Bluetooth in one, simplify the design of the whole machine, and can insert TF card;
- 2. Save labor costs: Built-in PCI-E 4G module, support a variety of PCI-E 4G modules such as Huawei, Longshang are more suitable for remote maintenance of all-in-one advertising machines, saving labor costs;
- 3. Rich expansion interfaces: 6 USB interfaces (4 pins and 2 standard USB ports), 3 available extended serial ports, GPIO/ADC interface, can meet the requirements of various peripherals on the market;
- 4. High-definition: Maximum support 3840×2160 decoding and various LVDS/EDP interface

LCD display;

- 5. Complete functions: Support horizontal and vertical screen playback, video split screen, scrolling subtitles, timer switch, USB data import and other functions;
- 6. Convenient management: Humanized playlist background management software, which is convenient for advertising playback management and control. Play log, easy to understand the playback situation.

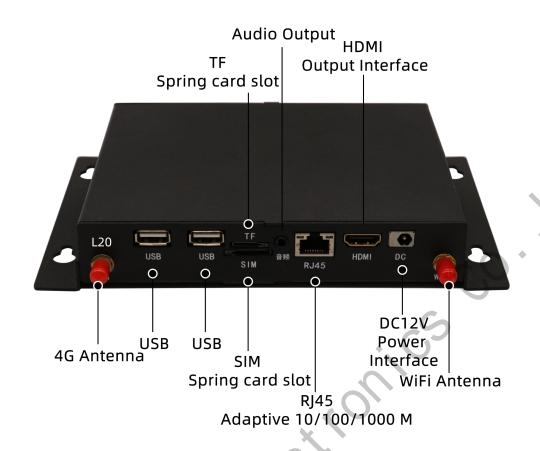
Product Appearance



Product	Parameters
	Main Hardware Indicators
СРИ	Rockchips RK3288 The strongest quad-core 1.8GHz Cortex-A17 Four
CPU	nuclear GPU Mail-T764
Memory	2G(Default) (Highest 4G)
Built-in Memory	EMMC 16G(Default)/32G/64G (Optional)
Built-in ROM	2KB EEPROM
Decoding Resolutions	Highest support 3840*2160
Operating System	Android 7.1
Play Mode	Support multiple playback modes such as loop, timing, insertion and so on

Network Support	4G, Ethernet, support WiFi/ Bluetooth 4.0, wireless peripheral extension		
Video Playback	Support MP4 (.H.264、MPEG、DIVX、XVID) Format		
USB2.0 Interface	2 USB HOST、4 USB Sockets		
Mipi Camera	24pin FPC interface, Support 1300w Camera (Optional)		
Serial Port	3 default serial port COM Sockets(can change to RS232 or 485)		
GPS	External GPS (Optional)		
WIFI、BT	Built-in WIFI, BT4.0 (Optional)		
4G	4GBuilt-in 4G module communication (Optional)		
Ethernet	1, 10M/100M/1000M Adaptive Ethernet		
TF Card	Support TF card		
LVDS Output	1 single/dual port, can directly drive 50/60Hz LCD screen		
EDP Output	Can directly drive EDP interface LCD screen with multiple resolutions		
HDMI Output	1, support 1080P@120Hz, 4kx2k@60Hz output		
Audio and Video	Support left and right channel output built in dual SD/EW newer amplifier		
Output	Support left and right channel output, built-in dual 8R/5W power amplifier		
RTC Real Time Clock	Support		
Timing Switcher	Support		
System Upgrade	Support SD card/Computer update		

Interface Parameters/Definitions



The following is the definition of the built-in socket interface

◆ CON12 UARTO-TTL Interface (2.00MM Vertical Socket)

Serial number	Definition	Attribute	Des	cription
1	VCC-3.3V	Power Output	VCC-3.3V	
2	UARTO_TX	Output	UART0_TX	The square hole at the arrow is the first PIN
3	UART0_RX	Input	UART0_RX	
4	GND	Ground	Ground	

- 1. Generally used as DEBUG;
- 2. **DEBUG** is used by default.
 - ◆ CON33 UART-TTL / RS232 Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Description	
1	VCC-3.3V	Power Output	VCC-3.3V	
			Data output,	
2	UART_TX	Output	connect to RX pin	
			of external device	The square hole at the arrow is the first PIN
			Data output,	
3	UART_RX	Input	connect to TX pin	S
			of external device	
4	GND	Ground	Ground	

- 1. This serial port can be adjusted by hardware, and configured as TTL/RS232 for data connection with external device;
- 2. TTL output is used by default, and the port number is UART1.
 - ◆ CON34 UART-TTL / RS232 Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Des	cription
1	VCC-3.3V	Power Output	VCC-3.3V	
~	3		Data output,	
2	UART_TX	Output	connect to RX pin	The square hole at the arrow is the first PIN
			of external device	
3	UART_RX	Input	Data output,	
3			connect to TX pin	

			of external device
4	GND	Ground	Ground

- This serial port can be adjusted by hardware, and configured as TTL/RS232 for data connection with external device;
- 2. TTL output is used by default, and the port number is UART4.
 - ♦ CON46 UART-TTL / RS485 Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Des	cription
1	VCC-3.3V	Power Output	VCC-3.3V	
2	UART_TX / A	Output	Data output, connect to RX pin of external device	
3	UART_RX / B	Input	Data output, connect to TX pin of external device	The square hole at the arrow is the first PIN
4	GND	Ground	Ground	

- This serial port can be adjusted by hardware, and configured as TTL/RS485 for data connection with external device;
- 2. TTL output is used by default, and the port number is UARTO.
- 3. This socket shares the serial port PIN with the Bluetooth module. If you need to use the Bluetooth function, this socket is not used. This socket is used by default, and without Bluetooth.

♦ CON41 SPK-OUT Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Description
1	LOUTP	L output is positive	Speaker amplifier
'	20011	L output is positive	output is positive
2	LOUTN	Loutput is pogative	Speaker amplifier
2	2 LOUTN L outp	L output is negative	output is negative The square hole at the arrow is the first PIN
3	ROUTN	R output is negative	Speaker amplifier
3	KOOTN	R output is negative	output is negative
4	ROUTP	R output is positive	Speaker amplifier
4	KOOTF	ix output is positive	output is positive

- 1. This is the dual speakers connection. When using a single speaker, it is a group of PIN and PIN 2, and a group of PIN 3 and PIN 4, which can not be mistaken;
- 2. For the use of the speaker, it is necessary to connect the speaker first and then turn it on. 8R speaker is used by default;
- 3. The power amplifier chip can support up to 2*8R/10W. Note the matching range of the speaker used, it is recommended that the rated power of the speaker can reach more than 3W.
 - **♦ CON43 USB-HOST** Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Description	
1	GND	Ground	Ground	The square hole at the arrow is the first PIN

			The data single is
	D D	Data is positive	positive, connect
2	DP		the USB_DP pin of
			the external device
			The data single is
3	DM	Data is negative	negative, connect
			the USB_DM pin of
			the external device
4	VCC-5V	Power Output	Power cord

- Use either this socket or PCI_E socket. If you need to use 3G/4G equipment, this socket can not be connected to other equipment;
- 2. It is recommended to use other sockets first, if necessary, use this socket last.
 - ◆ CON37 USB-HOST Interface (2.00MM Horizontal socket)

Serial number	Definition	Attribute	Des	cription
1	GND	Ground	Ground	
	10°		The data single is	
200		Data ia masikina	positive, connect	
(2)	DP	Data is positive	the USB_DP pin of	The square hole at the arrow is the first PIN
			the external device	
2	DM	Data is a sastive	The data single is	
3	DM	Data is negative	negative, connect	

			the USB_DM pin of	
			the external device	
4	VCC-5V	Power Output	Power cord	

♦ CON38 USB-HOST Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Des	cription
1	GND	Ground	Ground	$\mathcal{C}_{\mathcal{O}}$
2	DP	Data is positive	The data single is positive, connect the USB_DP pin of the external device	The square hole at the arrow is the first PIN
3	DM	Data is negative	The data single is negative, connect the USB_DM pin of the external device	
4	VCC-5V	Power Output	Power cord	

♦ CON39 USB-HOST Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Des	cription
1	GND	Ground	Ground	
2	DP	Data is positive	The data single is	The square hole at the arrow is the first PIN
	3	Data is positive	positive, connect	

			the USB_DP pin of	
			the external device	
			The data single is	
2	DNA	Deta is a section	negative, connect	
3	DM	Data is negative	the USB_DM pin of	
			the external device	
4	VCC-5V	Power Output	Power cord	$C_{\mathcal{O}}$

- This socket extends directly from the main control, it is recommended to exchange a large number of devices to connect this socket first.
 - ♦ J56 USB OTG Function Optional Socket (2.00MM Horizontal Pin)

Serial				
number	Definition	Attribute	Des	scription
1	GND	Ground	Ground	
2	OTG-SEL	Optional Pin	USB function	
	1		selection output	

- After this jumper cap is connected, the external USB port (J12) is the USB-HOST function, and if it is not connected, it is the USB-DRV function;
- If you use the J12 interface for DEBUG debugging, please remove this jumper cap. For example, when connecting a mouse and other devices, this jumper cap must be connected. The default is connected.
 - ◆ CON35 Power-DC12V-IN Interface (2.54MM Horizontal Socket Red)

Serial number	Definition	Attribute	Description	
1	DC12V-IN	Power Input	12V Power input	
2	DC12V-IN	Power Input	12VPower input	
3	GND	Power Ground	Power Ground	The square hole at the arrow is the first PIN
4	GND	Power Ground	Power Ground	MEEEE E
5	5VSTB	Signal Input	STB Power input	
6	STB	Signal Output	STB Signal output	$C_{\mathcal{O}}$

- 1. When using the built-in power input, connect to this socket;
- 2. The STB function needs external power strip support before it can be used;
- 3. The power supply voltage is 12V input, the use range is acceptable between 9V-14V, do not use a power adapter that exceeds this range.
 - ◆ CON45 GPIO Signal Output (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Description	
1	GND	Ground	Ground	
	•		GPIO1 Interface	
2	GPIO1	Input/Output	input / Output	
00	5		interface	The square hole at the arrow is the first PIN
(3)			GPIO2 Interface	
3	GPIO2	Input/Output	input / Output	
			interface	
4	GPIO3	Input/Output	GPIO3 Interface	

			input / Output	
			interface	
			GPIO4 Interface	
5	GPIO4	Input/Output	input / Output	A. X.
			interface	
6	VCC-3.3V	Power Output	VCC-3.3V	

1. The default configuration is GPIO port to use.

♦ CON42 KEY External Socket Interface (2.00MM Horizontal Socket)

NO.	Define	Attribute	Desc	ribe
1	POWEN	Input	System startup button	
2	RESET	Input	Reset signal interface	
			KEY extension	The square hole at the arrow is the first PIN
3	KEY	Input	interface (Up to 7 keys	J.
			can be extended)	
4	GND	Ground	Ground	

- 1. The configuration of the button can be adjusted, depending on the actual communication needs.
 - ◆ CON52 CTP Socket Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Des	scription
1	GND	Ground	Ground	The square hole at the arrow is the first PIN
2	RST	Input/Output	CTP Reset	

3	INT	Input/Output	CTP Interrupt	
4	I2C-SCL	Input/Output	I2C Clock signal	
5	I2C-SDA	Input/Output	I2C Data signal	
6	VCC-3.3V	Power output	VCC-3.3V	

◆ CON22 Backlight Inverter Control Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Descrip	tion
1	BL-12V_IN	Power Input	12V Backlight power	
2	BL-12V_IN	Power Input	output , 12V power supply is directly connected to the external adapter, and the current depends on the current of the adapter	The square hole at the arrow is the first F
3	ON / OFF	Control Output	Backlight switch signal, high level effective,	
~	5		software configuration	
	ADJ	Control Output	LVDS Screen brightness	
	7103	control output	control	
5	GND	Power Ground	Power Ground	
6	GND	Power Ground	Power Ground	

- 1. Pay attention to the order of the pins, not reverse.
- 2. For models that do not need to use the ADJ function, the ADJ can be left unconnected or connected to ON/OFF, so as to avoid the problem of dark screen. Whether the ADJ is connected high or low, please check the screen specifications.

◆ J57 EDP_LOGIC Power Input Optional Socket (2.00MM Horizontal Pin)

	_		-	
Serial number	Definition	Attribute	Des	scription
1	BL-3.3V_IN	Power Input	3.3V power input, jumper cap is connected	5
2	BL-VCC-OUT	Backlight Output	EDP_LOGIC power	
3	BL-5.0V_IN	Power Input	5.0V power input, jumper cap is connected	The square hole at the arrow is the first PIN
4	BL-VCC-OUT	Backlight Output	EDP _LOGIC power	
5	BL-12V_IN	Power Input	12V power input, jumper cap is connected	
6	BL-VCC-OUT	Backlight Output	EDP _LOGIC Power output	

1. When selecting this power supply, you must pay attention to the logic voltage required by the display, and then jump the jumper cap to the corresponding voltage selection PIN, otherwise it will easily burn the display circuit. (For the display voltage, please check the corresponding screen specifications)

♦ J58 EDP Signal Output (Dual 2.0MM Horizontal Socket)

Serial	Definition	Attribute	Description	
number				U
1			Liquid crystal power	5
2	EDP-VCC_IN	Power Input	output, +3.3V /+5V/ +12V optional, optional via J55	
3	GND	Power Ground	Power Ground	
4	GIVE	1 over Ground	Tower Ground	The square hole at the
5	EDP-TX0-	Output	Display Port Lane 0	arrow is the first PIN
			negative output	
6	EDP-TX0+	Output	Display Port Lane 0	
	S ING!	Gutput	positive output	
	EDP-TX1-	Output	Display Port Lane 1	
	LDF-IAI-	Output	negative output	
8	EDP-TX1+	Output	Display Port Lane 1	
J	LDF-IXI-	σαιραί	positive output	

EDP-TX2-	Output	Display Port Lane 2
EDP-TX2+	Output	Display Port Lane 2 positive output
		positive output
CDD TV2	Output	Display Port Lane 3
EDP-1X3-	Output	negative output
FDP-TX3+	Output	Display Port Lane 3
LDF-TA3+	Output	positive output
GND	Ground	Ground
GND	Ground	Ground
EDD ALLV	Output	Port AUX- channel
EDP-AUX-	Output	negative signal
FDD ALIV	Outmut	Port AUX+ channel
EDP-AUX+	Output	positive signal
GND	Ground	Ground
GND	Ground	Ground
+3.3V	Output	Output voltage
EDD HDD	Qutnut	Screen hot plug
בטר-חדט	Ουιραι	detection signal
	EDP-TX2+ EDP-TX3+ GND GND EDP-AUX- EDP-AUX+ GND GND	EDP-TX2+ Output EDP-TX3- Output EDP-TX3+ Output GND Ground EDP-AUX- Output EDP-AUX+ Output GND Ground GND Ground 43.3V Output

♦ J55 LVDS_LOGIC Power Output Optional Socket (2.00MM Horizontal Pin)

Serial	Definition	Attribute	Description
Number		7 3 3 3 3 3 3 3	

			3.3V power input,
1	BL-3.3V_IN	Power Input	jumper cap is
			connected
2	BL-VCC-OUT	Backlight Output	LVDS_LOGIC power
	DL-VCC-001	backlight Output	output
			5.0V power input,
3	BL-5.0V_IN	Power Input	jumper cap is
			connected
4	BL-VCC-OUT	Doolding to Output	LVDS_LOGIC power
4	BL-VCC-OUT	Backlight Output	output
			12V power input,
5	BL-12V_IN	Power Input	jumper cap is
			connected
	DI VCC OUT	Daylei alex Octobri	LVDS_LOGIC power
6	BL-VCC-OUT	Backlight Output	output



- 1. When selecting this power supply, you must pay attention to the logic voltage required by the display, and then jump the jumper cap to the corresponding voltage selection PIN, otherwise it will easily burn the display circuit. (For the display voltage, please check the corresponding screen specifications)
- ♦ J53 LVDS Signal Output (Dual 2.0MM Horizontal Socket) Support dual channel 10-bit LVDS

Definition Attribute	Description
----------------------	-------------

Number				
1			Liquid crystal	
2			power output,	
	LCDVCC IN	Dawen lanest	+3.3V /+5V/ +12V	
	LCDVCC-IN	Power Input	optional, optional	
3			via J55	(0,
4				S
5	GND	Power Ground	Power Ground	
6			40/,	
_		_	Pixel0 Negative	
7	RXO0-	Output	Data (Odd)	
	DV00		Pixel0 Positive Data	
8	RXO0+	Output	(Odd)	
0	DVO1	Outrot	Pixel1 Negative	
9	RXO1-	Output	Data (Odd)	
10	Dryo1 .	Outrout	Pixel1 Positive Data	
10	RXO1+	Output	(Odd)	
	DVO2	Outrock	Pixel2 Negative	
	RXO2-	Output	Data (Odd)	
42	DVO3	Outrock	Pixel2 Positive Data	
12	RXO2+	RXO2+ Output	(Odd)	

13	GND	Ground	Ground	
14	GND	Ground	Ground	
4.5	DVOC	0 1 1	Negative Sampling	
15	15 RXOC-	Output	Clock (Odd)	
1.6	DV0.5		Positive Sampling	
16	RXOC+	Output	Clock (Odd)	
			Pixel3 Negative	
17	RXO3-	Output	Data (Odd)	5
10	DVO3	0	Pixel3 Positive Data	,
18	RXO3+ Output		(Odd)	
10	DVE		Pixel0 Negative	
19	RXE0-	Output	Data (Even)	
20	DVEO.		Pixel0 Positive Data	
20	RXE0+	Output	(Even)	
24	DVE 4		Pixel1 Negative	
21	RXE1-	Output	Data (Even)	
22	0	0	Pixel1 Positive Data	
22	RXE1+	Output	(Even)	
(3)	DV52	0	Pixel2 Negative	
23	RXE2-	Output	Data (Even)	
24	DVEO	6	Pixel2 Positive Data	
24	RXE2+	Output	(Even)	
	1	1	1	1

25	GND	Ground	Ground	
26	GND	Ground	Ground	
27	DVEC	0	Negative Sampling	
27	RXEC-	Output	Clock (Even)	
			Positive Sampling	
28	RXEC+	Output	Clock (Even)	
	2/52		Pixel3 Negative	Co
29	RXE3-	Output	Data (Even)	S
20	DVE2 .	Outout	Pixel3 Positive Data	
30	RXE3+	Output	(Even)	
24	DVO4	Outsit	Pixel4 Negative	
31	RXO4-	Output	Data (Odd)	
22	DVO 4		Pixel4 Positive Data	
32	RXO4+	Output	(Odd)	
22	DVE 4	Out i	Pixel4 Negative	
33	RXE4-	Output	Data (Even)	
2.4	O	Out	Pixel4 Positive Data	
34	RXE4+	Output	(Even)	

◆ J17 HDMI_IN Interface (FPC Socket 0.5MM Horizontal Socket) Screen

Serial Number	Definition	Attribute	Description	
1	I2C-SCL	Output	SCL Signal	

2	I2C-SDA	Output	SDA Signal	
3	I2S-SDI	Output	I2S group signal	
4	I2S-CLK	Output	I2S group signal	
5	I2S-SCLK	Output	I2S group signal	
6	I2S-LRCK	Output	I2S group signal	
7	RST	Ground	Reset signal	0.
8	HDMI-IR	Ground	To be determined	0
9	STBY	Output	Standby control	S
10	INT	Output	Interrupt signal	
11	CLKP	Output	Mipi Clock channel is positive	
12	CLKN	Output	Mipi Clock channel	
13	D3P	Output	Mipi Data channel 3 is positive	
14	D3N	Output	Mipi Data channel 3 is negative	
15	D2P	Output	Mipi Data channel 2 is positive	
16	D2N	Output	Mipi Data channel 2 is negative	
17	D1P	Output	Mipi Data channel	

			1 is positive	
18	D1N	Output	Mipi Data channel	
10	DIN	Output	1 is negative	
19	D0P	Ground	Mipi Data channel	
19	DOP	Ground	0 is positive	
20	DON	Cround	Mipi Data channel	
20	DOIN	Ground	0 is negative	CO
21	GND	Output	Ground	5
22	GND	Output	Ground	
23	PWREN	Output	Power enable	
24	VCC	Output	5V output	

♦ CON32 Microphone Input Interface (2.00MM Horizontal Socket)

Serial	- C	•01		
Number	Definition	Attribute	Description	
1	MICP	Signal input is	Microphone is	
'	WIICI	positive	positive	The square hole at the arrow is the first PIN
2	MICN	Signal input is	Microphone is	
-0	3	negative	negative	

1. When connecting the microphone, be careful not to reverse its polarity.

♦ J16 Camera Interface (FPC Socket 0.5MM Horizontal Socket)

Serial	Definition	Attribute	Description
Number	Beilintion	Attribute	Description

1 NC / /	
2 VDD Power 2.8V Output	
3 DVDD Power 1.2V Output	
4 DOVDD Power 1.8V Output	× '
5 NC / /	
6 GND Ground Ground	
7 VDD Power 2.8V Output	
8 GND Ground Ground	
9 I2C3_SDA Input/Output SDA Signal	
10 I2C3_SCL Output SCL Signal	
11 RST Output Reset signal	
12 PWDN Output Power control	
13 GND Ground Ground	
14 MCLK Output Master clock	
15 GND Ground Ground	
Mipi Data channel	
16 D3P Input/Output 3 is positive	
Mipi Data channel	
17 D3N Input/Output 3 is negative	
18 GND Ground Ground	
Mipi Data channel	
19 D2P Input/Output 2 is positive	

20	D2N	Input/Output	Mipi Data channel 2 is negative	
21	GND	Ground	Ground	
22	D1B	Input/Output	Mipi Data channel	
22	D1P	Input/Output	1 is positive	
23	D1N	Input/Output	Mipi Data channel	
23	DIN	input/Output	1 is negative	Co
24	GND	Ground	Ground	S
25	CLKP	Input/Output	Mipi Clock channel	
23	CLRP	input/Output	is positive	
26	CLKN	Input/Output	Mipi Clock channel	
20	CLRIV	input/Output	is negative	
27	GND	Ground	Ground	
28	D0P	Input/Output	Mipi Data channel	
			0 is positive	
29	D0N	Input/Output	Mipi Data channel	
23			0 is negative	
30	GND	Ground	Ground	

♦ CON44 Two-color LED and Infrared IR Interface (2.00MM Horizontal Socket)

Serial number	Definition	Attribute	Description	
1	LED_ RED	Output	LED light positive	The square hole at the arrow is the first PIN

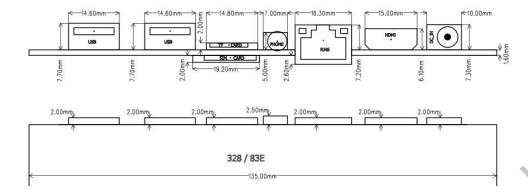
			pole, system running status	
			indicator light	
2	GND	Power Ground	Power Ground	
3			LED light positive	
	LED_ BLUE	Output	pole, system	
			shutdown status	Co
			indicator light	5
4	IDV (CC 2) (2)	Daniel	Remote power	
4	IRVCC-3V3	Power Input	output	
5	GND	Power Ground	Power Ground	
6	IR-IN	Signal Input	IR Signal input	

- 1. The default configuration is to use a common cathode LED lamp. If a common anode lamp is used, the common pin of the LED lamp can be connected to the 3rd PIN as the power input when making an extension cable. Note that after this connection method , the status of the lamp will change, and need to update the software configuration;
- 2. The remote control supports the function of hard switching machine. The remote start button needs software configuration or the remote control code value can be used after learning to match;
- Remote learning operation: In the shutdown state, short-circuit the MCU_INT socket,and press the key of the remote control that needs to be adapted to the

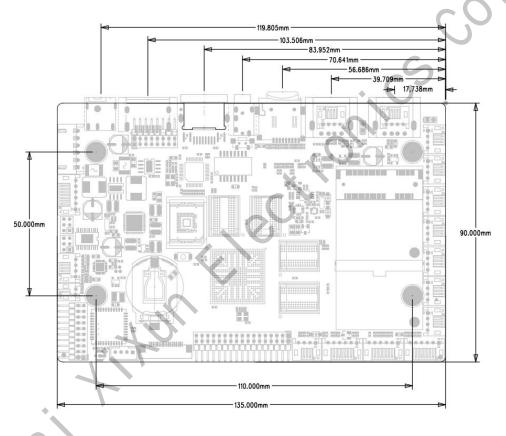
switch machine on the receiver, then turn it on. After turning on, the machine has learned to switch on and off and you can use this key to switch.

	Built-in Socket Interface Parameters	Interface
	Standard 12V round head 6.4mm aperture,	
J3	2.0mm internal needle, positive inside and	DC
	negative outside	
J15	Standard TF card interface definition	TF
J8	Standard type A HDMI socket definition	HDMI
ıc	Standard 100M RJ45 socket definition	7 F 9
J6	(without light)	RJ45
J12	Standard USB2.0 horizontal socket definition	USB
J20	Standard USB2.0 horizontal socket definition	USB
J59	Standard external earphone audio source	
	socket definition	音频
SIM1	Standard SIM card interface definition	SIM

Card Installation Dimensions



External Interface Thickness Dimension Drawing



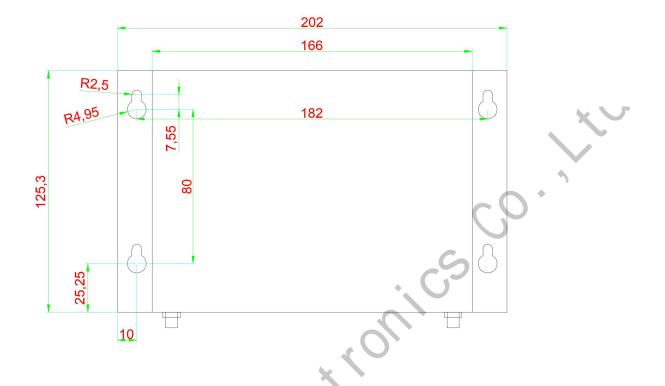
Dimensions

PCB: 6 board

Size: 135mm*90mm, Board thickness 1.6mm

Screw hole specification: ∮3.0mm x 4

Box Installation Dimensions



Unit: mm

Cautions

- 1. Forbidden to disassemble and assemble the product by yourself.
- 2. Forbidden to plug and unplug the antenna with power on.



And Flectronics