



Touch Think Intelligence Product Specification

Mainboard series
CX-J4125B

V1.0



CONTENTS

Chapter 1 Product Introduction.....	4 -
1.1 Applicability.....	4 -
1.2 Functions.....	4 -
1.3 Features.....	4 -
Chapter 2 Product Specifications and Parameters.....	5 -
Chapter 3 Definition of Product Interface.....	7 -
3.1 PCB Drawing.....	8 -
3.2 Diagram of External Interface.....	9 -
3.2.1 Power Input.....	10 -
3.2.2 RTC Battery.....	11 -
3.2.3 MIC.....	11 -
3.2.4 Ordinary socket of earphone.....	12 -
3.2.5 Speaker Output Connector.....	12 -
3.2.6 LVDS Backlight Control Port.....	12 -
3.2.7 LVDS interface.....	13 -
3.2.8 LVDS Resolution Dial Definition.....	15 -
3.2.9 Backlight dimming control method selection.....	16 -
3.2.10 Screen voltage selection.....	16 -
3.2.11 IO interface voltage selection.....	17 -
3.2.12 IO interface.....	18 -
3.2.13 COM1 serial port.....	19 -
3.2.14 COM1 serial port voltage selection.....	20 -
3.2.15 COM2 serial port.....	20 -
3.2.16 COM2 serial port voltage selection.....	21 -
3.2.17 232/422/485 serial port selection port.....	21 -



3.2.18 422/485 serial port output..... - 22 -

3.2.19 4-channel dual-wire serial port output..... - 23 -

3.2.20 TMP interface..... - 24 -

3.2.21 Power-on self-starting function selection - 24 -

3.2.22 USB3 socket..... - 25 -

3.2.23 USB4 socket - 25 -

3.2.24 Coastline USB2.0 X2 - 26 -

3.2.25 Coastline USB3.0 X2 - 27 -

3.2.26 Speaker 4PIN connector holder - 28 -

3.2.27 Ethernet..... - 28 -

3.2.28 Fan Interface..... - 29 -

3.2.29 standard SATA interface..... - 29 -

3.2.30 SATA power supply interface..... - 30 -

3.2.31 FRONT Jumper..... - 30 -

3.2.32 Other standard interfaces and functions..... - 31 -

Chapter 4 Electrical Performance of Products..... - 32 -

Chapter 5 Matters needing attention in assembly and user..... - 33 -



Chapter 1 Introduction

1.1 Applicability

CX-J4125 motherboard has rich functional interfaces, compatible with more kinds of displays; stronger performance, faster speed, compatible with multi-functional interfaces, it is your best choice for human-computer interaction, intelligent terminals, industrial control projects. Mainly used in finance, retail, medical, all-in-one machine, advertising machine, industrial control machine and other fields.

It can be applied in the following occasions:

- ◆ Advertising machine
- ◆ Digital signage
- ◆ Intelligent self-service terminal
- ◆ Intelligent retail terminal
- ◆ O2O intelligent equipment
- ◆ Industrial intelligent automation equipment

1.2 Functions

CX-J4125 motherboard adopts Intel Celeron J4125 quad-core CPU, quad-processing, main frequency of 2GHZ, the motherboard is a high speed, fanless motherboard, J4125B belongs to the high-performance X86 series products, with 14nm advanced process, the motherboard supports a variety of operating systems.

1.3 Features

- Intel Celeron J4125 Quad-Core 2GHZ with Intel Bay trail SOC Chipset
- Supports DDR4 2400 low voltage 1.2V memory up to 8GB
- Supports Wide Voltage 12V-36V Input, DC Female Inside Diameter 2.5MM
- Onboard VGA/HDMI interface, LVDS/eDP port; support dual-screen display
- On-board 2*COM (standard RS232) port; 1 RS485 and RS422 with RS232 inter-conversion; 4 independent dual-wire serial port
- Onboard MiniPCIE with WIFI/4G/BT/GPS support; SATA HDD support; NVMe protocol MSATA support
- Rich expansion interface: 8 USB interfaces (2 USB3.0 standard sockets, 2 USB2.0 standard sockets, 4 USB2.0 terminal interface), 4RS232 serial port
- Supports 4 GPIO (TTL) outputs and 4 GPIO TTL inputs, which can meet the requirements of various peripherals in the market.



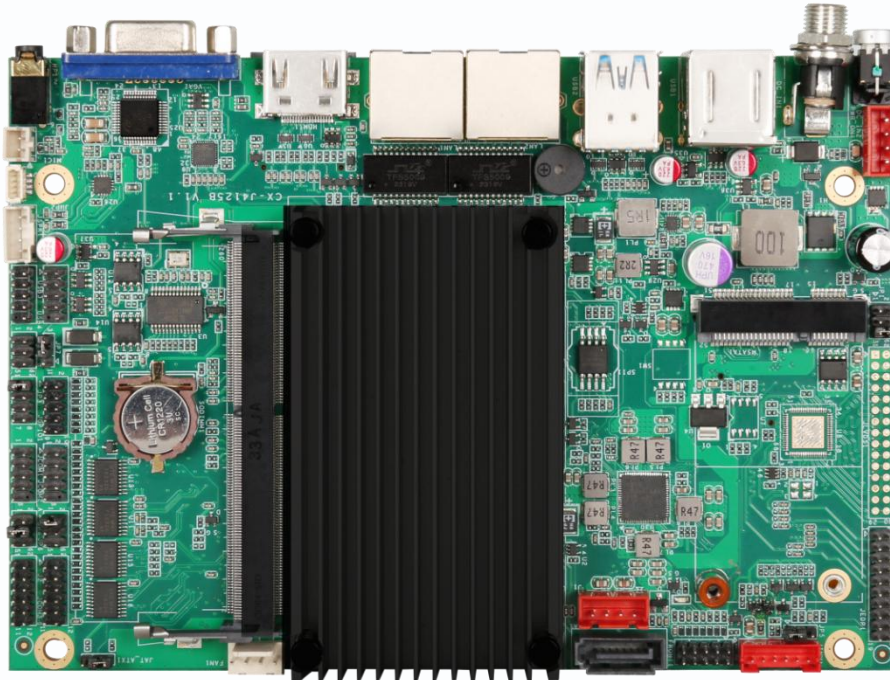
Chapter 2 Product Specifications and Parameters

Type	Specification parameter
CPU	Intel® Celeron® J4125, Basic Frequency 2.GHZ, Quad-core2. Built-in low-power MCU Cortex-M0
RAM	support DDR4-2400 MHz, 1 * SO-DIMM Slot,Up to 8GB
ROM	1 * SATA3.0 + 1 * mSATA +8MB Flash
Cache	Level 3 cache 4MB
Decode Resolution	Supports up to 4k/60HZ
Operating system	Win10/ Win11
Play Mode	Support multiple playback modes such as cycle, timing and interruption.
Network Support	4G, Ethernet, WiFi/ Bluetooth support, wireless peripheral expansion
Video Display	Support wmv, avi, flv, rm, rmvb, mpeg, ts, mp4, etc.
Picture Format	Supports BMP, JPEG, PNG and GIF.
USB Interface	2 USB3.0 standard interfaces; 2 USB2.0 standard interfaces 4 USB2.0 headers (3 from HUB, 1 directly from CPU)
Serial Port	6 serial port socket: 1 full line RS232; ; 4 *2 line RS232; ; 1 RS485/RS422/ full RS232 optional
GPS	External GPS (optional)

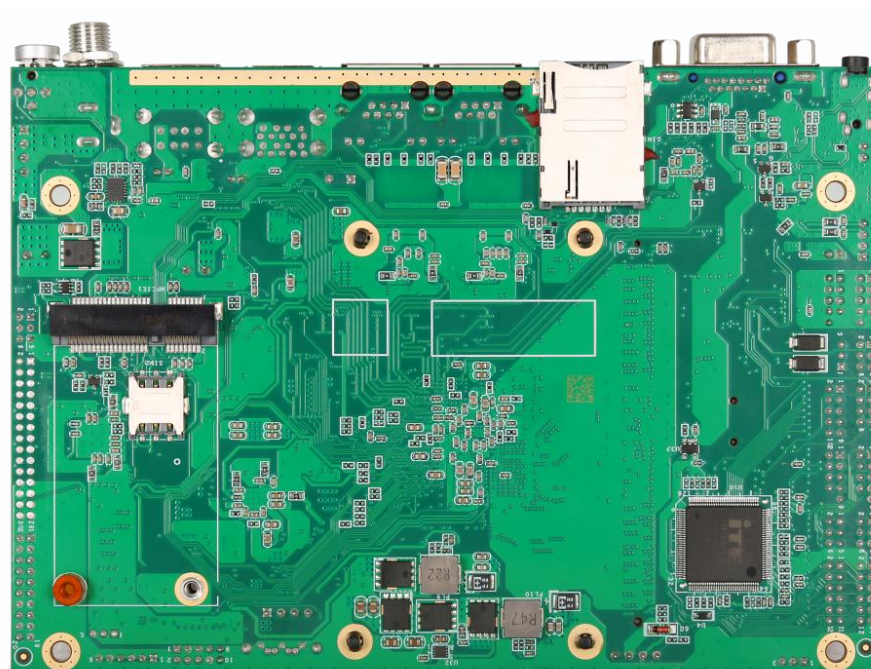
SATA	1 SATA hard disk interface
WIFI+BT/4G	2.4G/5G WIFI+ Bluetooth 5.0/4G module interface with built-in MINIPCIE interface.
Ethernet	2* 1000M Ethernet interfaces
LVDS Output	1 dual LVDS interface
EDP Output	1 *4 lane eDP interface
HDMI Output	1 standard HDMI output port
Audio Outputs	Built-in dual-channel 4R/10W/ or 8R/5W/ dual-channel amplifier
Earphone Holders	Built-in 3.5mm 4-section headphone jack
RTC Real-time Clock	Support
Time Switch Output	Support

Chapter 3 Product interface definition

【Front】



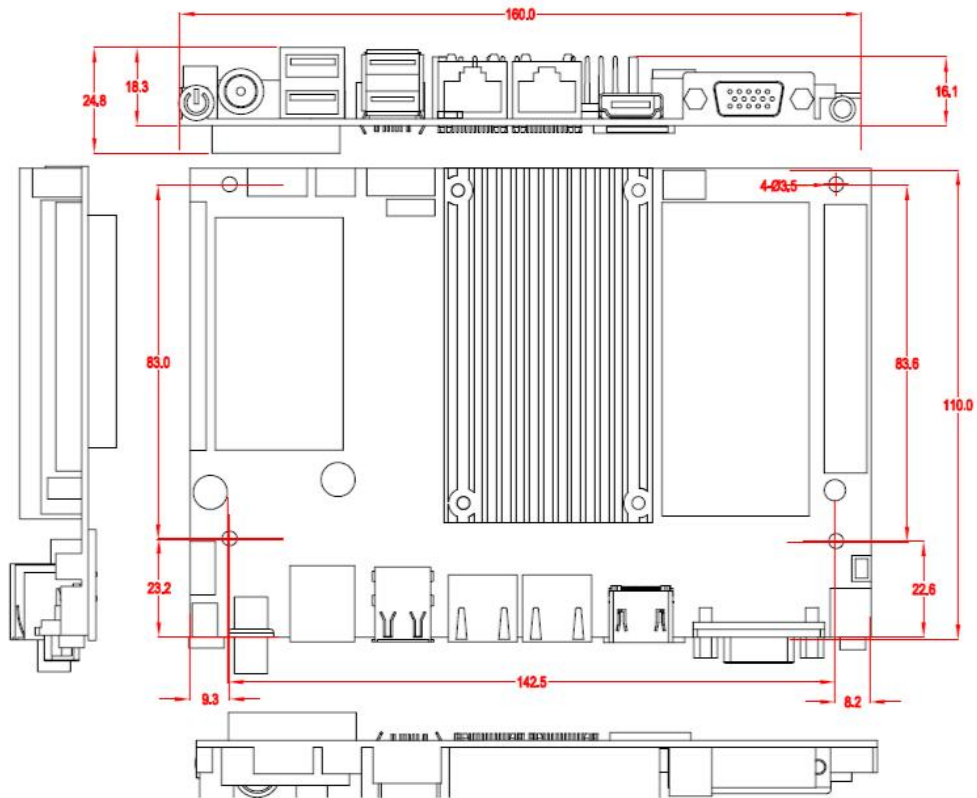
【Back】



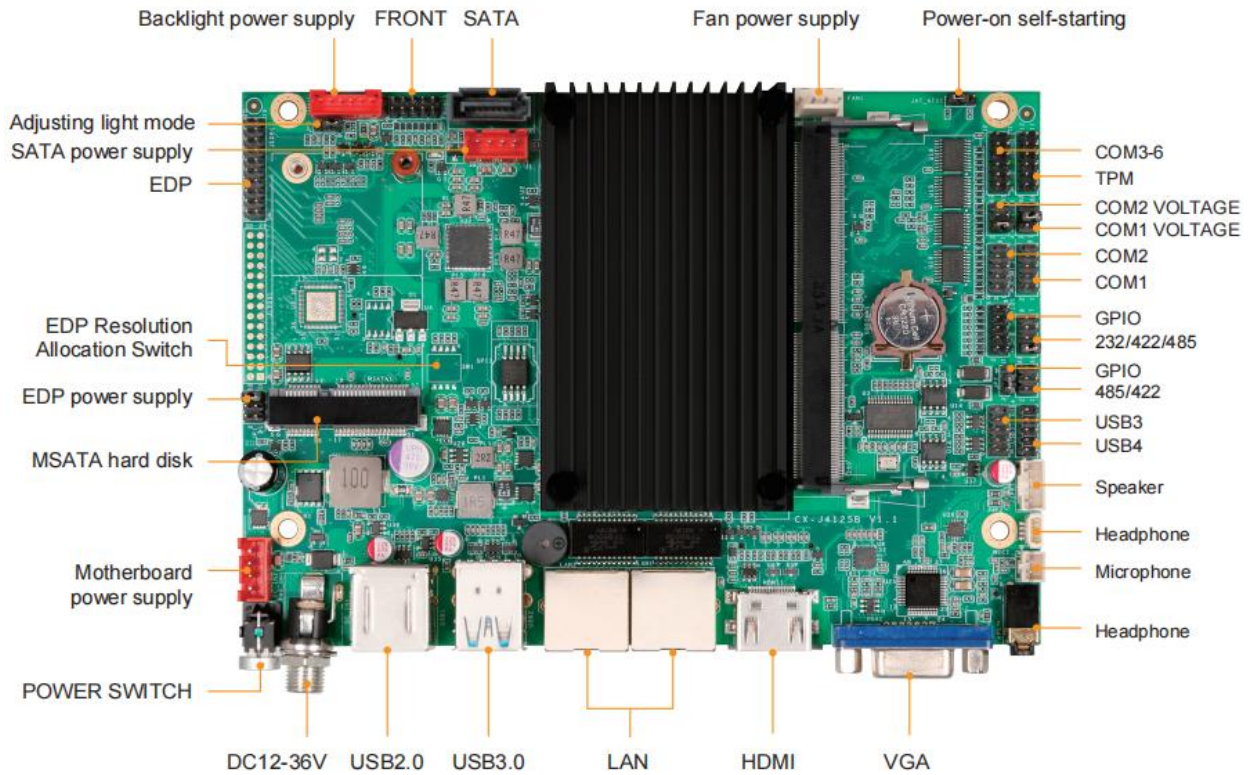
【Coastline】



◆ 3.1 PCB dimension drawing

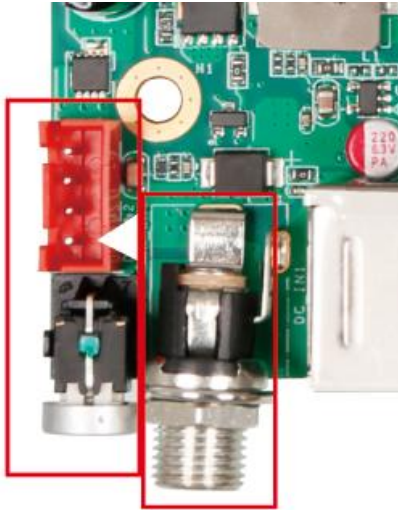


◆ 3.2 Schematic diagram of external interface



◆ 3.2.1 Power input interface

The 12V-36V DC power supply is used to power the board system only from the DC block and power socket, and the plug DC IN specification of the power adapter is D5.5, d2.0 threaded head. The 12V DC power supply is required to support a minimum of 800mA current with no peripherals connected and no load.



The interface of the power socket is defined as follows, which can be powered by the power supply board, and the holder specification is 4PIN 2.54mm pitch.

The triangular symbols in the figure indicate PIN1

Number	Definition	Attribute	Describe
1	VCC	input	12V-36V input
2	VCC	input	12V-36V input
3	GND	earth	earth wire
4	GND	earth	earth wire



◆ 3.2.2 RTC battery interface

Used to power the system clock in the event of a power failure, to protect abnormal power failures to protect system data



Number	Definition	Attribute	Describe
1	VCC	input	3V input
2	GND	earth wire	earth wire

◆ 3.2.3 MIC interface

Please pay attention to the connection of the positive and negative poles of MIC, and don't connect them backwards.

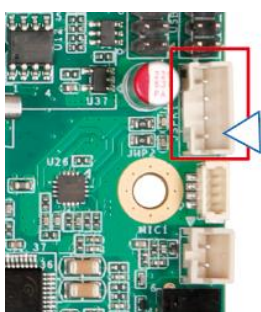


Number	Definition	Attribute	Describe
1	MICN	input	MIC-
2	MICP	input	MIC+

◆ 3.2.4 Earphone ordinary socket

Number	Definition	Attribute	Describe
1	HPOUTR	output	Headphone right output
2	HPOUTL	output	Headphone left output
3	HPOUT-JD	input	Headphone Detection Input
4	GND	GND	GND

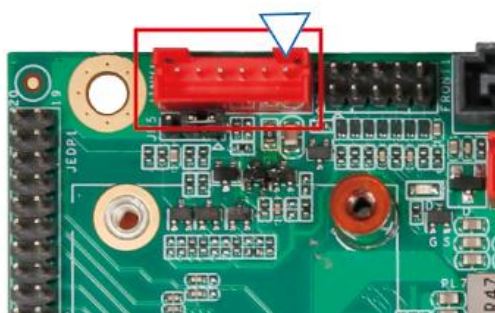
◆ 3.2.5 Speaker Output Holder



Number	Definition	Attribute	Describe
1	INSPL-	Output-	Speaker L-
2	INSPL+	Output+	Speaker L+
3	INSPR-	Output-	Speaker R-
4	INSPR+	Output+	Speaker R+

◆ 3.2.6 LVDS backlight control interface

For the backlight control of LVDS screen, the power supply current of 12V is not more than 2A. If the backlight power of the screen is more than 24W, please take power from other power boards to avoid system instability. Backlight enable voltage is 5V, if it is other voltage, please add IO level conversion circuit. This 12V power supply can only be used as backlight power supply output, and must not be used as power supply input for the system.



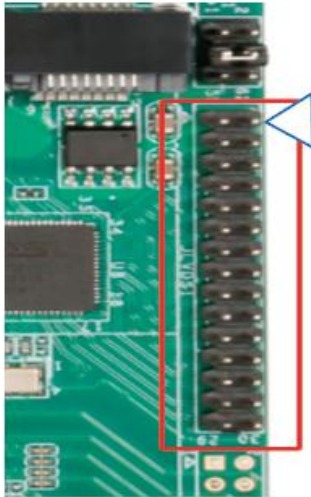
Number	Definition	Attribute	Describe
1	VCC	Power Supply	12V output
2	VCC	Power Supply	12V output
3	EN	Output	Backlight enable control
4	PWM	Output	Backlight brightness control
5	GND	Earth wire	earth wire
6	GND	Earth wire	earth wire

◆ 3.2.7 LVDS interface

Universal LVDS interface definition, supports single/dual, 6/8 bit 1080P LVDS screen.

In order to avoid burning the board and screen, please pay attention to the following things:
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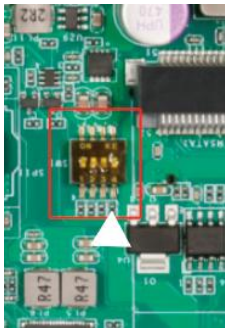
1. Please confirm whether the power supply voltage of the screen is correct and whether the corresponding power supply of the board can meet the maximum working current.
2. Please use a multimeter to confirm whether the power supply selected by the jumper cap is correct.



Number	Definition	Attribute	Describe
1	VCC	power output	power supply
2	VCC	power output	power supply
3	VCC	power output	power supply
4	NC	Overhanging	Overhanging Ground Wire
5	GND	earth (wire)	earth (wire)
6	GND	earth (wire)	earth (wire)
7	LVDS0_D0	output	Pixel0 Negative Data0(Odd)
8	LVDS0_D0	output	Pixel0 Positive Data0(Odd)
9	LVDS0_D1	output	Pixel0 Negative Data1(Odd)
10	LVDS0_D1	output	Pixel0 Positive Data1(Odd)
11	LVDS0_D2	output	Pixel0 Negative Data2(Odd)
12	LVDS0_D2	output	Pixel0 Positive Data2(Odd)
13	GND	earth (wire)	earth (wire)
14	GND	earth (wire)	earth (wire)
15	LVDS0CLK	D0P	Negative Sampling Clock (Odd)
16	LVDS0CLK	D1P	Positive Sampling Clock (Odd)
17	LVDS0_D3	D2P	Pixel0 Negative Data3(Odd)
18	LVDS0_D3	GND	Pixel0 Positive Data3(Odd)
19	LVDS1_D0	CLK0P	Pixel1 Negative Data0(Even)
20	LVDS1_D0	output	Pixel1 Positive Data0(Even)
21	LVDS1_D1	output	Pixel1 Negative Data1(Even)
22	LVDS1_D1	output	Pixel1 Positive Data1(Even)
23	LVDS1_D2	output	Pixel1 Negative Data2(Even)

24	LVDS1_D2	output	Pixel1 Positive Data2(Even)
25	GND	earth (wire)	earth (wire)
26	GND	earth (wire)	earth (wire)
27	LVDS1CLK	output	Negative Sampling Clock (Even)
28	LVDS1CLK	output	Positive Sampling Clock (Even)
29	LVDS1_D3	output	Pixel3 Negative Data3(Even)
30	LVDS1_D3	output	Pixel3 Positive Data3(Even)

◆ 3.2.8 LVDS Resolution Dial Definition

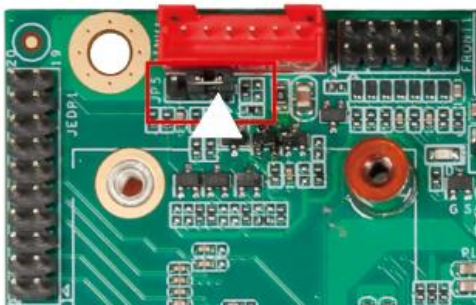


Number	Definition	Attribute	Describe
0	0000	1024*600	1CH/18bit
1	0001	1024*768	1CH/18bit
2	0010	800*600	1CH/18bit
3	0011	1280*800	1CH/18bit
4	0100	1920*1080	2CH/24bit
5	0101	1680*1050	2CH/24bit
6	0110	800*600	1CH/24bit
7	0111	1024*768	1CH/24bit
8	1000	1024*600	1CH/24bit
9	1001	1280*800	1CH/24bit
10	1010	1920*1080	2CH/18bit
11	1011	1366*768	1CH/24bit
12	1100	1920*1200	2CH/24bit
13	1101	1280*1024	2CH/24bit
14	1110	1440*900	2CH/24bit
15	1111	1920*1080	2CH/24bit

◆ 3.2.9 Backlight dimming control method selection

The backlight control of the screen is divided into PWM dimming and DC dimming

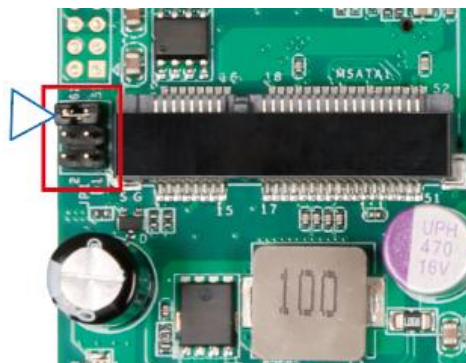
Number	Definition	Attribute	Describe
1	BRIGHT_PW	PWM_IN	PWM pulse input
2	BRIGHTO	Dimming output	5V voltage output
3	DC	Pull up and down DC	DC 5V via pull-up and pull-down resistors



◆ 3.2.10 Screen Voltage Selection

The board with three screen power supply voltage 3.3V/5V/12V selection function, in order to avoid burning the board and screen, please pay attention to the following matters:

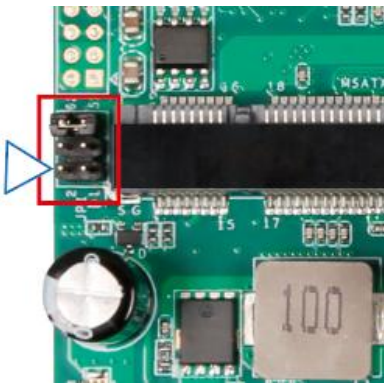
- 1, please confirm the screen specifications screen power supply voltage is correct, the board corresponding power supply can meet the maximum working current.
- 2, please use a multimeter to confirm that the jumper cap selection of the power supply is correct.



Number	Definition	Attribute	Describe
1	3.3V	power supply	3.3V power supply
2	5V	power supply	5V power supply
3	12V	power supply	12V power supply

◆ 3.2.11 IO Interface Voltage Selection

The IO level is 3.3V/5V selectable, if the peripheral level does not match, you need to connect the serial level conversion.

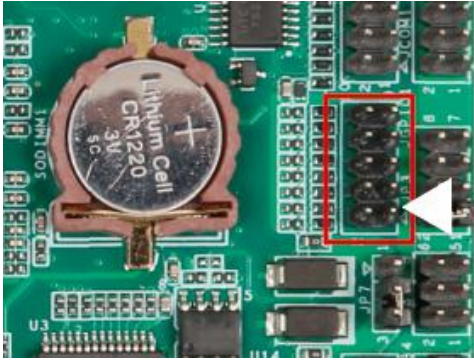


Number	Definition	Attribute	Describe
1	3.3V	power supply	digital power
2	VIO	power supply	GPIO Pull-up power
3	5V	power supply	digital power



◆ 3.2.12 IO interface

8 IOs are used to provide control signal input/output for peripheral devices, the level is 3.3V/5V selectable, if the peripheral devices do not match the level, you need to string in the level conversion.



Number	Definition	Attribute	Describe
1	I/O 0	input/output	IO0 port
2	I/O 1	output/input	IO1 port
3	I/O 2	input/output	IO2 port
4	I/O 3	input/output	IO3 port
5	I/O 4	input/output	IO4 port
6	I/O 5	input/output	IO5 port
7	I/O 6	input/output	IO6 port
8	I/O 7	input/output	IO7 port
9	+VIO	power supply	3.3V/5V optional
10	GND	GND	GND

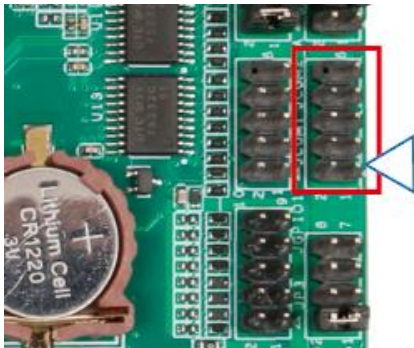
◆ 3.2.13 COM1 serial port

The board leads to 1 set of independent full-featured serial ports - COM1 ports. notes:

1, whether the serial port voltage match. Can not directly access the common 232 serial devices on the market.

2, the board can be 5V/12V2 in the power supply, if the peripheral level does not match the need to string into the level conversion

3, TX, RX connection is correct.



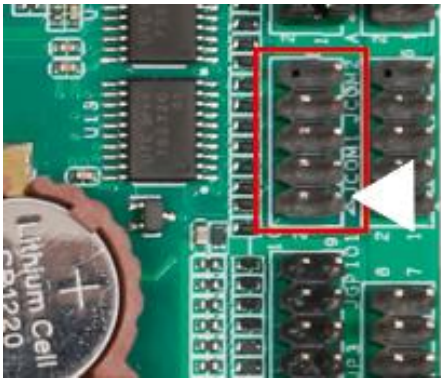
Number	Definition	Attribute	Describe
1	COM1_DCD	input	data carrier detection
2	COM1_RXD	input	receive data
3	COM1_TXD	output	Send data
4	COM1_DTR	output	Data terminals .
5	GND	GND	signal field
6	COM1_DSR	input	communication equipment
7	COM1_RST	output	Request sent
8	COM1_CTS	input	Permission to send
9	COM1_RI	input	Ring indicator

◆ 3.2.14 COM1 serial port voltage selection

Number	Definition	Attribute	Describe
1	COM1_RI	input	Serial port without voltage
2	+5V	power supply	5V serial port
3	+12V	power supply	12V serial port

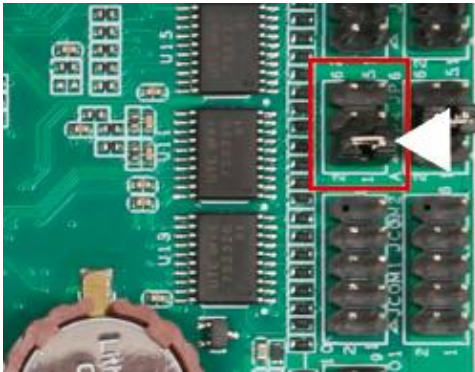
◆ 3.2.15 COM2 serial port

The board leads to a separate set of full-featured serial ports, COM2 ports, which are selectable via jump caps.



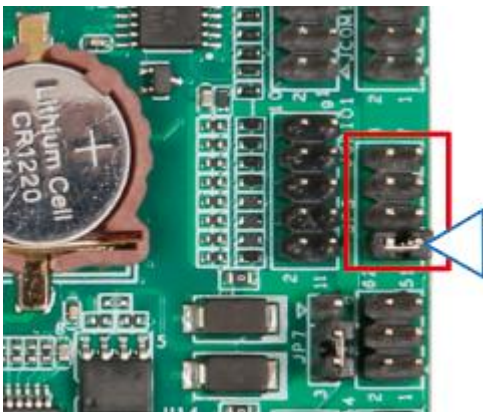
Number	Definition	Attribute	Describe
1	COM2_DCD	input	data carrier detection
2	COM2_RXD	input	receive data
3	COM2_TXD	output	Send data
4	COM2_DTR	output	Data terminals .
5	GND	GND	signal field
6	COM2_DSR	input	communication equipment
7	COM2_RST	output	Request sent
8	COM2_CTS	input	Permission to send
9	COM_RI	input	Ringling indicator

◆ 3.2.16 COM2 serial port voltage selection



Number	Definition	Attribute	Describe
1	COM2_RI	input	Serial port without voltage
2	+5V	power supply	5V serial port
3	+12V	power supply	12V serial port

◆ 3.2.17 232/422/485 serial port selection



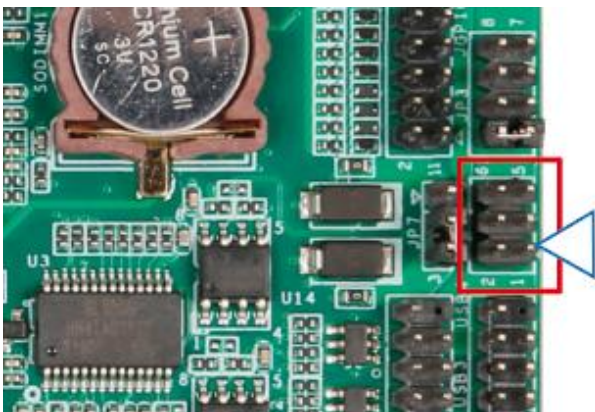
A. when 1/2 is on and 3/4 is off, when COM2 in BIOS selects RS422, the motherboard JCOM2-2 has the function of RS422, and at this time, the motherboard JCOM2 fails to function.

B. When 1/2 is off and 3/4 is on, when COM in BIOS selects RS485, the motherboard JCOM2-2 has RS485 function, and at this time, the motherboard JCOM2 has no function.

C. When 1 is on and 2/3/4 is off, and COM in BIOS selects RS232, the motherboard JCOM2 has full signal RS232 function, which is the default dialing state of the motherboard.

Number	Definition	Attribute	Describe
1	SIN2_SW	output	Serial Port Selection Common Port
2	SIN2_232	output	232/422 Select Port
3	SIN2_SW	output	Serial Port Selection Common Port
4	SIN2_422	output	422 Port
5	SIN2_SW	output	output
6	SIN2_485	output	485 Port
7	RTS2#	output	Serial Port Selection Common Port
8	SIN2_485	output	485 Port

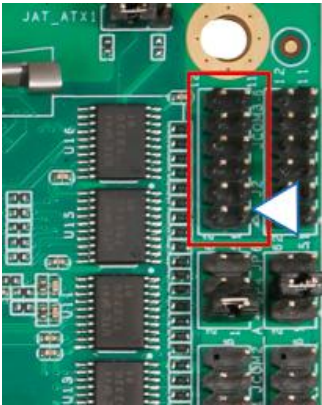
◆ 3.2.18 422/485 serial output



Number	Definition	Attribute	Describe
1	COM2_TX+	output	485 output+
2	COM2_TX-	output	485 output-
3	COM2_RX+	input	422 output+
4	COM2_RX-	input	422 output-
5	GND	GND	GND
6	GND	GND	GND

◆ 3.2.19 4 dual-wire serial outputs

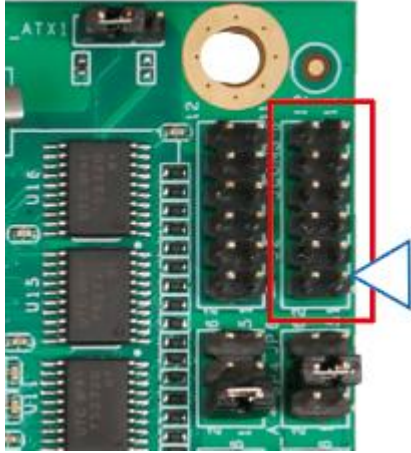
1. 4 independent 2-wire serial ports, notes:
2. Whether the serial port voltage is matched. Can not be directly connected to the market common 232 serial devices.
3. If the level does not match the need to serial level conversion
4. TX, RX connection is correct.



Number	Definition	Attribute	Describe
1	COM3_RXD	input	COM3 receive
2	COM4_RXD	output	COM4 receive
3	COM3_TXD	output	COM3 send
4	COM4_TXD	output	COM4 send
5	GND	GND	GND
6	GND	GND	GND
7	COM5_RXD	input	COM5 receive
8	COM6_RXD	output	COM6 receive
9	COM5_TXD	output	COM5 receive
10	COM6_TXD	output	COM6 receive
11	GND	GND	GND
12	GND	GND	GND



◆ 3.2.20 TMP interface



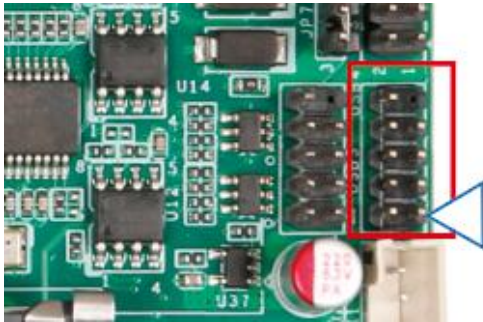
Number	Definition	Attribute	Describe
1	+V5S_USBA	Power supply	+5V
2	+V5S_USBA	Power supply	+5V
3	USB3_N	DM	USBD-
4	USB_HUBN04	DM	USBD-
5	USB3_P	DP	USBD+
6	USB_HUBP04	DP	USBD+
7	GND	GND	GND
8	GND	GND	GND
9	NC	NC	NC
10	GND	GND	GND

◆ 3.2.21 Power-on self-starting function selection

Number	Definition	Attribute	Describe
1	ATX	Pull up	Pull up power supply IO_3VSB—
2	SOUT5	input	Power-on startup mode selection
3	AT	Pull down	Pull-down GND— Power-on without self-starting



◆ 3.2.22 USB3 Socket



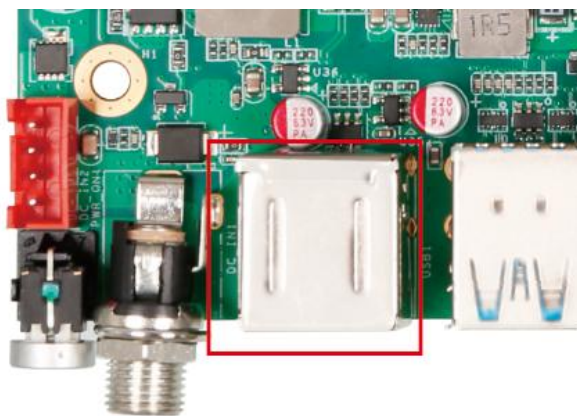
Number	Definition	Attribute	Describe
1	+V5S_USBA	Power supply	+5V
2	+V5S_USBA	Power supply	+5V
3	USB3_N	DM	USBD-
4	USB_HUBN04	DM	USBD-
5	USB3_P	DP	USBD+
6	USB_HUBP04	DP	USBD+
7	GND	GND	GND
8	GND	GND	GND
9	NC	NC	NC
10	GND	GND	GND

◆ 3.2.23 USB4 USB2.0 Socket



Number	Definition	Attribute	Describe
1	+V5S_USBA	Power supply	+5V
2	+V5S_USBA	Power supply	+5V
3	USB_HUBNO2	DM	USBD-
4	USB_HUBNO1	DM	USBD-
5	USB_HUBPO2	DP	USBD+
6	USB_HUBPO1	DP	USBD+
7	GND	GND	GND
8	GND	GND	GND
9	NC	NC	NC
10	GND	GND	GND

◆ 3.2.24 Coastal USB2.0 X2 Type-A Interface Holder



Number	Definition	Attribute	Describe
1	+V5S_USBC	Power supply	+5V
2	USB0_N	DM	USBD-
3	USB0_P	DP	USBD+
4	GND	GND	GND
5	+V5S_USBC	Power supply	+5V
6	USB1_N	DM	USBD-
7	USB1_P	DP	USBD+
8	GND	GND	GND

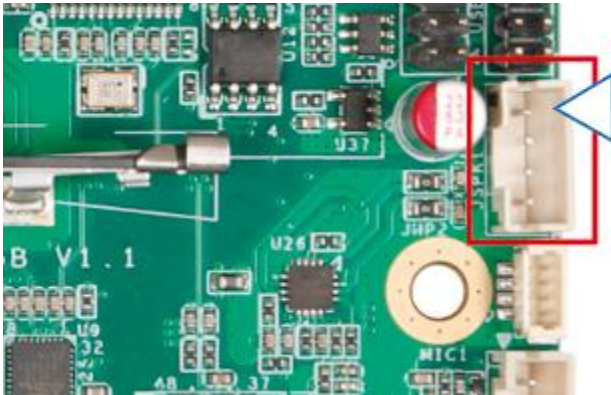
◆ 3.2.25 Coastal USB3.0 X2 Type-A Interface Holder



Number	Definition	Attribute	Describe
1	+V5S_USBB	Power supply	+5V
2	USB7_N	DM	USBD-
3	USB7_P	DP	USBD+
4	GND	GND	GND
5	USB3_RXN1	RX_DM	RX_D-
6	USB3_RXP1	RX_DP	RX_D+
7	GND	GND	GND
8	USB3_TXN1	TX_DM	TX_D-
9	USB3_TXP1	TX_DP	TX_D+
10	+V5S_USBB	Power supply	+5V
11	USB5_N	DM	USBD-
12	USB5_P	DP	USBD+
13	GND	GND	GND
14	USB3_RXN2	RX_DM	RX_D-
15	USB3_RXP1	RX_DP	RX_D+
16	GND	GND	GND
17	USB3_TXN2	TX_DM	TX_D-
18	USB3_TXP2	TX_DP	TX_D+



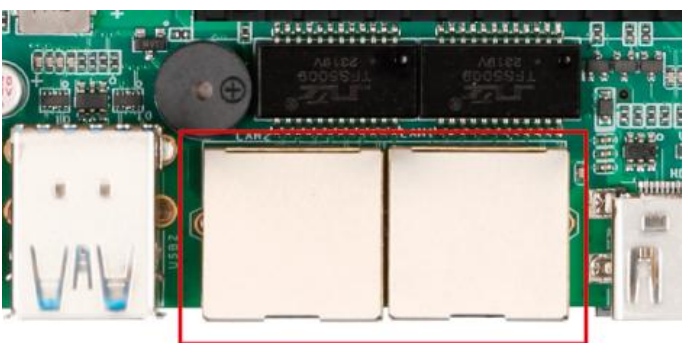
◆ 3.2.26 Speaker 4PIN connector holder



Number	Definition	Attribute	Describe
1	OUP-R	output	Audio Output Right+
2	OUN-R	output	Audio Output Right-
3	OUP-L	output	Audio out left-
4	OUN-L	output	Audio out left+

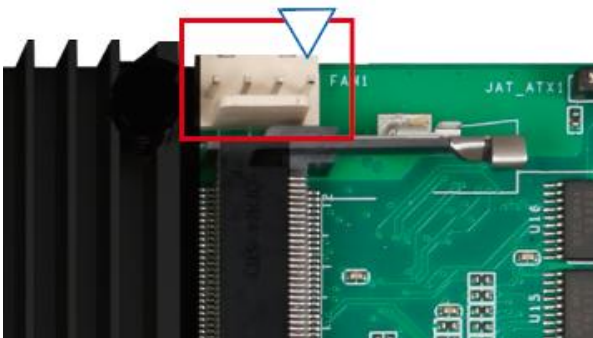
◆ 3.2.27 Ethernet

The Board supports 2 Gigabit Ethernet ports RJ45 X2PCS





◆ 3.2.28 Fan Interface

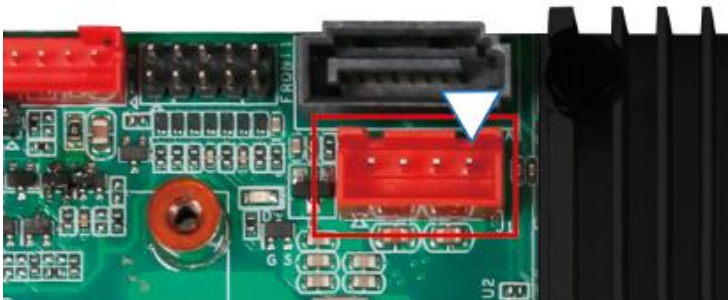


Number	Definition	Attribute	Describe
1	GND	ground	ground
2	VCC	power supply	12V power output
3	FAN_TAC1	TAC1	Fan negative pole
4	FAN_CTL1	CTL1	Fan control

◆ 3.2.29 Standard SATA Interface

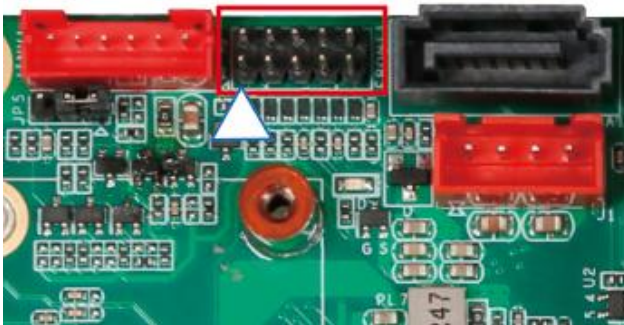


◆ 3.2.30 SATA power supply interface



Number	Definition	Attribute	Describe
1	VCC-12	power output	12V power output
2	GND	ground	ground
3	GND	ground	ground
4	VCC-5V	power output	5V power output

◆ 3.2.31 FRONT Jumper



Number	Definition	Attribute	Describe
1	HDD_LED+	output	HDD Positive terminal of the indicator
2	PWR_LED+	output	POWER Negative terminal of the indicator
3	HDD_LED-	output	HDD Negative terminal of the indicator
4	PWR_LED-	output	POWER Negative terminal of the indicator
5	PWR_BT-	input	power switch PWR_BT Negative
6	PWR_BT+	input	power switch PWR_BT Positive
7	RST_BT+	input	system reset RST_BT Positive
8	RST_BT-	input	system reset RST_BT Negative
9	BLUP	output	The backlight adjustment with LVDS chip can be configured and used if the backlight adjustment of CPU is not used.
10	BLDN	output	

◆ 3.2.32 Other standard interfaces and functions

Storage Interface	USB	USB3.0 interface support backward compatible with USB2.0, support data storage, data import, USB mouse
HDMI output interface	standard interface	Supports HDMI data output up to 8K/60HZ.
headphone jack	standard interface	3.5mm standard interface
4G interface	PCI-E standard interface	Supports Huawei, ZTE and other Mini PCI-E 3G/4G modules
SIM card interface	standard interface	Support for various standards (depending on 4G module)

Chapter 4 Electrical Performance

Project		Minimum	Typical	Maximum
Power supply parameters	voltage	--	12V	36V
	ripple	--	--	100mV
	current		5A	
Power supply current (HDMI output, No other devices connected)	Single Board Operating Current	--	1200mA	2000mA
	Standby Current	--	--	--
	USB Supply Current	--	--	500mA
Static electricity	contact discharger			8KV
	air discharge			15KV
Environment	relative humidity	--	--	80%
	operating temperature	-20°C	--	60°C
	Storage temperature	-20°C		70°C

Note 1:

When connecting the LVDS screen, it is necessary to select the correct backlight working voltage of 3.3V, 5V, 12V and 12V, and users are requested not to apply it to the equipment exceeding the corresponding maximum current.

Note 2:

When an LVDS screen is connected, the working current and standby current of the whole board depend on the connected screen, which are not listed in the above table.



Chapter 5 Notes on assembly and use

Please note the following (and not limited to) problem points during assembly and use.

1. Bare board and external equipment short circuit problem;
2. In the process of installation and fixing, avoid the deformation problem caused by the bare board due to fixing reasons;
3. Confirm LVDS/EDP screen's requested voltage and current is correspond to motherboard output, mind the connector's pin definition and connect the pin correctly;
4. When installing the LVDS screen, pay attention to the screen backlight voltage, current compliance. If the screen backlight power is more than 20W, whether to use other power supply board power supply;
5. When installing peripherals (USB, IO, ETC), pay attention to peripheral IO level and current output issues;
6. When installing the serial port, pay attention to whether it is directly connected to the 232,485 devices, and whether the TX and RX connections are correct.
7. Whether the input power supply is connected to the power input connector, and whether the input power supply voltage, current, etc. meet the requirements according to the total peripheral evaluation.



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