



研域工控
YANYU GONGKONG

用户手册

User Manual

C57-L4 VER:1.0



物联网解决方案领航者
Internet of Things (IOT) Solution Leader

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For more information, please visit:

Yanyu Gongkong Website: <http://www.tostarcn.com>

Yanyu Gongkong Technical Support: sh.fawang@tostarcn.com

Configuration

No.	Model	Barebone Model	Motherboard	Other board
1	C57-L4 VER:1.1	C5750Z-L4	EPIC-C57 (3865U/6360U/6650U/7200U/7600U)	C68-HM VER:1.1/C68-G12 VER:1.0
2	C57-L4 VER:1.1	C5750Z-L4	EPIC-C43 (4120U/5250U)	C68-HM VER:1.1/C68-G12 VER:1.0
3	C57-L4 VER:1.1	C5750Z-L4	EPIC-C81 (8145U/8265U/8565U)	C68-HM VER:1.1/C68-G12 VER:1.0

above order information is for reference only, for more details please contact:
+86-13889914626, Email: gary@tostarcn.com

Safety Instructions

1. Please read this manual carefully before using this product.
2. Please put all unused/uninstalled boards and cards in anti-static bags.
3. Please first place your hands on grounding metal object for a while before you go to take out the board from its package, so as to release body electrostatic.
4. Please place the motherboard on a solid plane before using.
5. Please keep the Motherboard dry, heat sink slot is used for ventilation to avoid overheating of the components in the case, do not cover or plug this kind of opening slots.
6. Please first check the power voltage before connecting the motherboard to the power supply.
7. Please put the power cord in the place where it will not be trampled, and don't put any objects on the power cord.
8. Before you want to connect or unplug any equipment, please make sure all power cords are unplugged in advance.
9. In order to avoid the human body by electric shock or product damage, must turn off the ac power or unplug the ac power cord from the power outlet before Plugging the motherboard or reconfiguration.
10. Please note that all the attention and warnings mentioned in the manual.
11. To prevent any unnecessary damage to the products due to frequent power on/off, please wait at least 30 seconds to restart the unit after a shutdown.
12. If any unexpected problems happened during the operation, please seek help from professionals .
13. please do not put or keep the device in the environment that temperature is higher than 70℃, otherwise it will cause damage to the equipment.

Note: It may cause the danger of explosion if replace the battery improperly .Please use the same type of battery or the battery that manufacturer recommend.

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Chapter 1 Product Introduction

1.1 Product Description

C57-L4 is expansion I/O board, configured with NFC572 case and C57/C43/C81 motherboard constitutes C5750Z-L4 computer.

1.2 Product Specification

Model No.	C57-L4 VER:1.1
Front Panel I/O	1* power switch, 1* reset switch
	2* USB2.0 port
	1* SIM slot
	1* HDD LED, 1* PWR LED
Rear Panel I/O	4* WGI211AT Gigabit LAN port
	1* CISCO RS232COM port
	1* DB9 RS232 COM port, support RS485 optional (defaulted RS232)
	1* DC power adaptor port, support 12V power input output
Built-in I/O	1* 2.5" laptop SATA slot, can install hard disk directly
	1* M.2 slot, install C68-HM I/O board to transfer 1*HDMI port
	1* Mini-PCIE slot, support WiFi/4G module
	Note: C43 motherboard LAN6 and WiFi are optional, defaulted LAN6
	1* Mini-PCIE slot, install C68-G12 I/O board to transfer 1* GPIO port
	1* USB2.0 port
Support OS	Windows7/8/10/Linux
Support MB	EPIC-C57/EPIC-C43/EPIC-C81 motherboard
Working Temp.	-10℃~60℃
Storage Temp.	-20℃~70℃
Relative Humidity	5%—95% relative humidity, non-condensing
Dimensioin	148mm *141mm

1.3 Product Photo

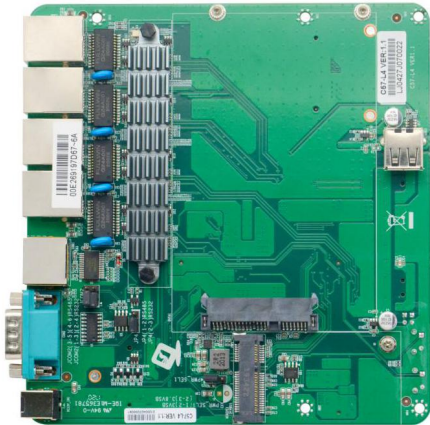


Image 1: C57-L4 VER:1.1 Front

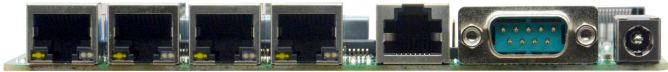


Image 2: C57-L4 VER:1.1 Rear Panel I/O



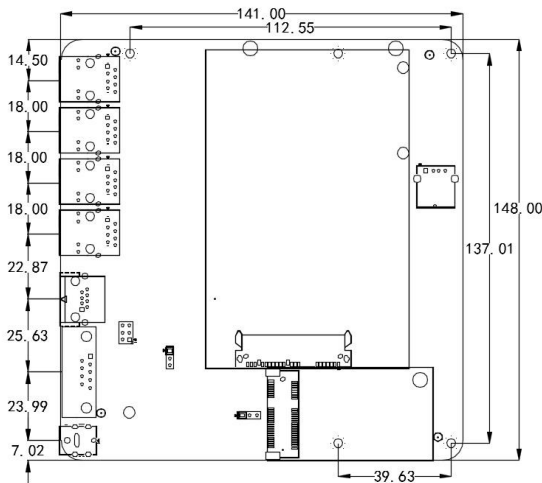
Image 3: C57-L4 VER:1.1 Front Panel I/O

Chapter 2 Installation Instruction

2.1 Product Dimension

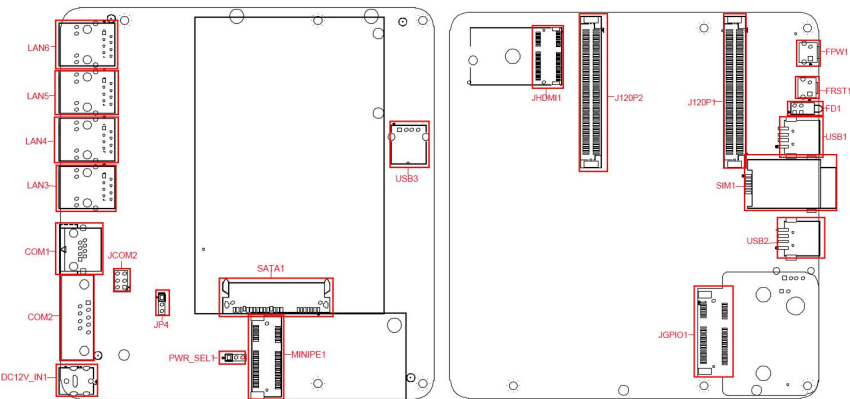
Following images are C57-L4 front I/O port location and dimension drawing. Please must be careful during installation, for some parts, wrong installation may lead to working abnormal.

Note: Please wear anti-electrostatic glove during installation, static electricity may cause damage to components.



C57-L4 VER:1.0 Dimension Drawing

2.2 I/O Port Location

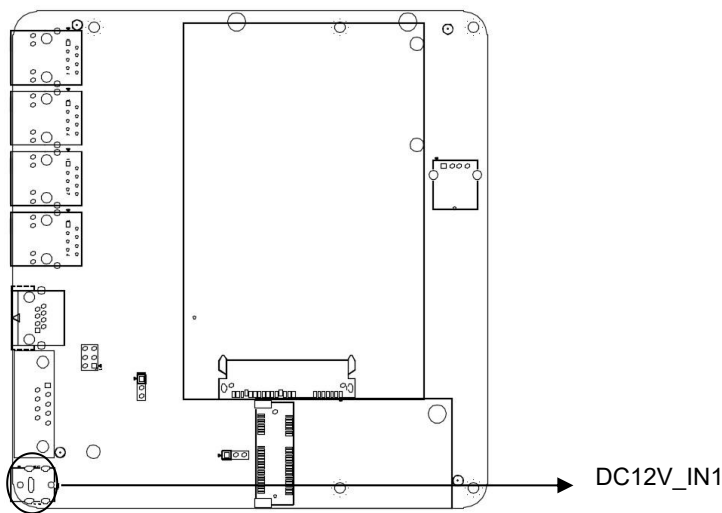


2.3 I/O Port Description

Tips: How to identify the 1st pin of jumpers and connectors, check the word mark beside the socket, It marked with "1" or bold lines or triangular symbols. Check the the bonding pad on the back of PCB, the square bonding pad is PIN 1; All the jumpers' PIN1 have a white arrow on the side.

2.3.1 Power Supply Port (D12V_IN1)

Board provide 1* DC power adaptor port, support DC 12V power input



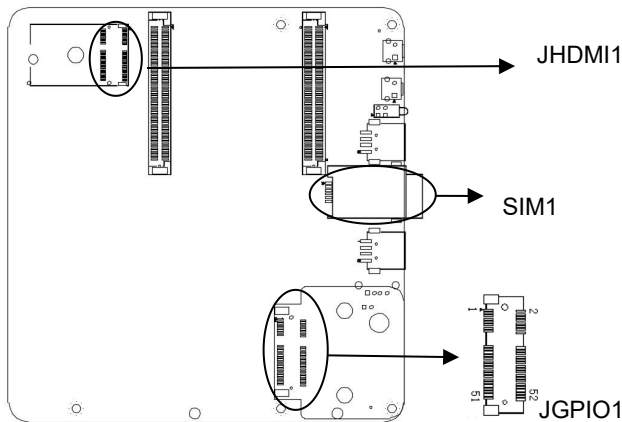
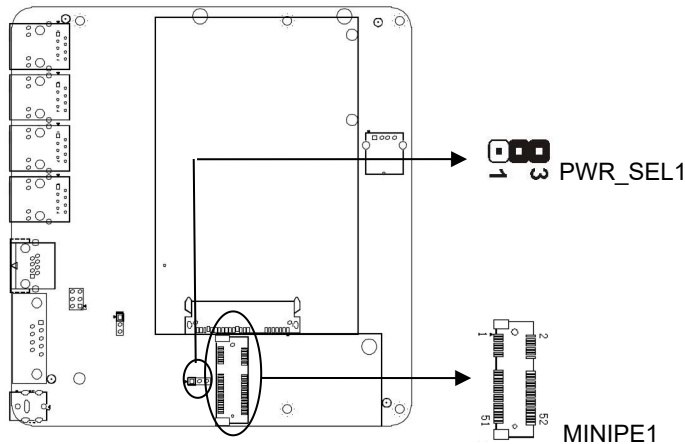
2.3.2 Mini-PCIE slot (MINIPE1、SIM1、PWR_SEL1、JHDMI1、JGPIO1)

Board provide 1* Mini-PCIE slot, support WiFi/3G/4G module

1* SIM slot

1* Mini-PCIE slot, install with C68-G12 expansion GPIO port.

1* M.2 slot, install with C68-HW expansion HDMI port.



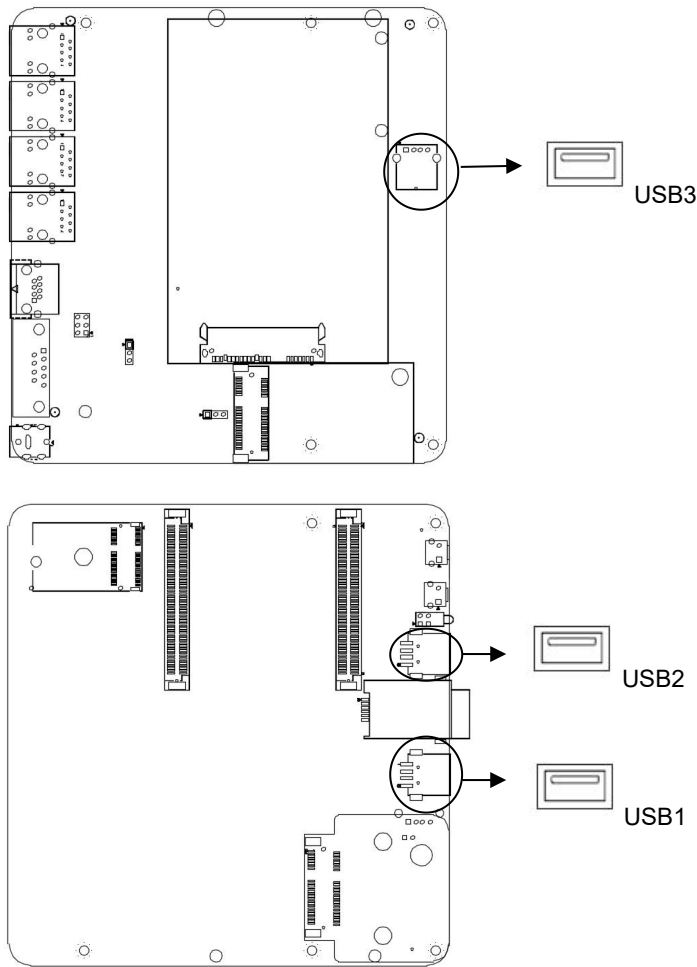
4G module voltage setting (PWR_SEL1)

PWR_SEL1 definition:

Setting	PWR_SEL1
1-2 shorted	3.3V
2-3 shorted	3.8V

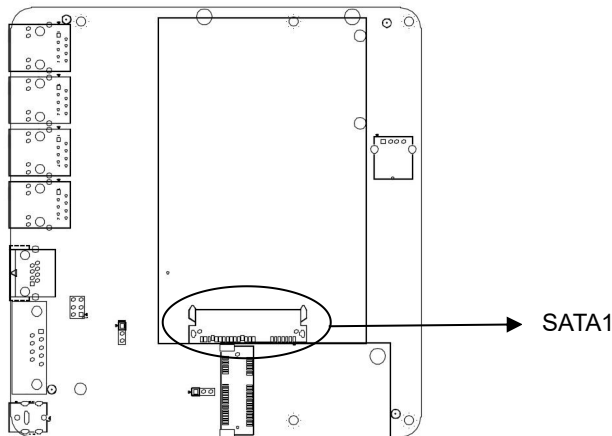
2.3.3 USB Port (USB1、USB2、USB3)

Board provide 3* standard USB2.0 port.



2.3.4 Hard Disk Port (SATA1)

Board provide 1* 2.5" SATA slot, can install hard disk directly.



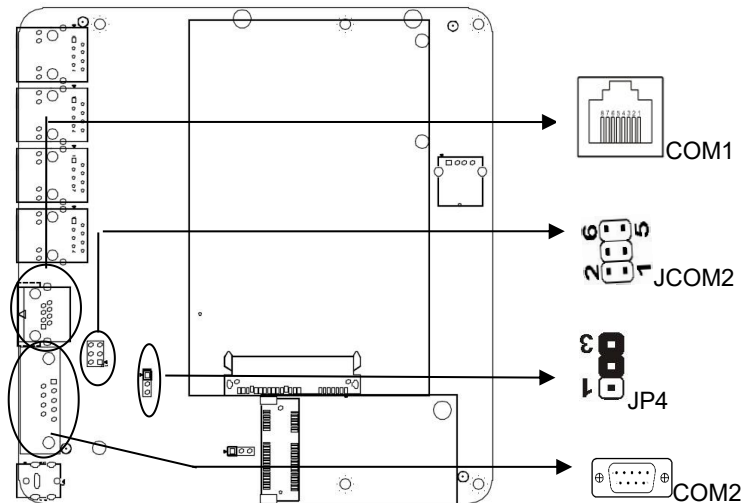
SATA1(2.5" hard disk slot) Definition

Pin	Signal Name	Pin	Signal Name
1	GND	2	SATA_TXP1
3	SATA_TXN1	4	GND
5	SATA_RXN1	6	SATA_RXP1
7	GND	8	3.3V
9	3.3V	10	3.3V
11	GND	12	GND
13	GND	14	5V-HDD
15	5V-HDD	16	5V-HDD
17	GND	18	/
19	GND	20	NC
21	NC	22	NC

2.3.5 COM Port (COM1、COM2、JP1、JP4、JCOM2)

Board provide 2* RS232 COM port, COM1 is CISCO standard COM, COM2 is DB9

standard COM, COM2 also support RS485 function, need adjust jumper to choose.



COM2 Definition

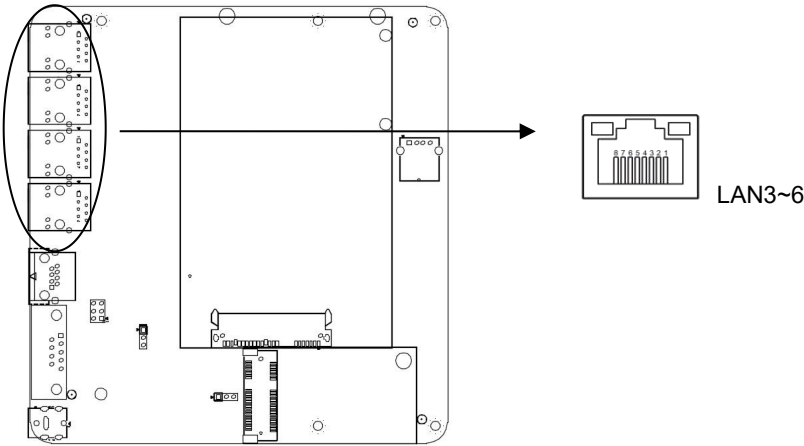
Pin	Signal Name	Pin	Signal Name
1	DCD	2	RXD
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

COM2 RS485/232 Setting

Setting	JCOM2	Setting	JP4
3-5 Shorted	RS485	1-2 Shorted	RS485
4-6 Shorted			
1-3 Shorted	RS232	2-3 Shorted	RS232
2-4 Shorted			

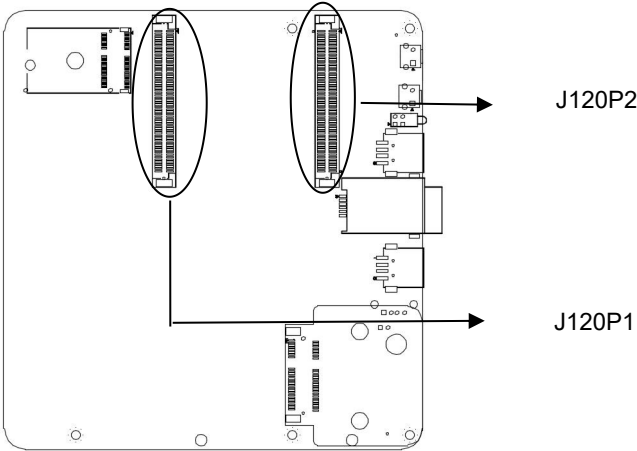
2.3.6 LAN Port (LAN3、LAN4、LAN5、LAN6)

Board provide 4* Gigabit LAN port



2.3.7 Express Connector (J120P1、J120P2)

Board provide 2* 120pin Express connector, transfer motherboard signal to IO board.



J120P1 Definition:

Pin	Signal Name	Pin	Signal Name
1	+12V	2	+12V
3	+12V	4	+12V
5	+12V	6	+5V
7	+5V	8	+5V
9	+5V	10	+3.3V

11	+3.3V	12	+3.3V
13	+3.3V	14	+3.3V
15	RI_5	16	CTS_5
17	DCD_5	18	DTR_5
19	+5V	20	MS_CLK
21	MS_DATA	22	GND
23	RTS_4	24	DSR_4
25	DCD_4	26	RI_4
27	LAD2	28	LAD3
29	SERIRQ	30	RXD3
31	DSR_3	32	DCD_3
33	RI_3	34	GPIO36
35	GPIO23	36	GPIO52
37	GPIO51	38	CTS_6
39	RXD6	40	TXD6
41	DCD_6	42	GND
43	PCIE_RXP4	44	PCIE_RXN4
45	GND	46	PCIE_TXP4
47	PCIE_TXN4	48	GND
49	CLK_PCIE_N4	50	CLK_PCIE_P4
51	GND	52	CLK_PCIE_P3
53	CLK_PCIE_N3	54	GND
55	PCIE_RXP11	56	PCIE_RXN11
57	GND	58	PCIE_RXP12
59	PCIE_RXN12	60	GND
61	GND	62	GND
63	GND	64	GND
65	SMB_DATA	66	SMB_CLK
67	LPC_SLO2_CLK2	68	GND
69	CLK_PCIE_N5	70	CLK_PCIE_P5
71	GND	72	USB_N9
73	USB_P9	74	GND

75	RTS_5	76	DSR_5
77	TXD5	78	RXD5
79	+5V	80	KB_CLK
81	KB_DATA	82	GND
83	TXD4	84	RXD4
85	DTR_4	86	CTS_4
87	LAD1	88	LAD0
89	LFRAME	90	RTS_3
91	TXD3	92	CTS_3
93	DTR_3	94	GPIO10
95	GPIO37	96	GPIO81
97	GPIO80	98	RI_6
99	DTR_6	100	RTS_6
101	DSR_6	102	GND
103	PCIE_RXN10	104	PCIE_RXP10
105	GND	106	PCIE_RXN9
107	PCIE_RXP9	108	GND
109	PCIE_TXP12	110	PCIE_TXN12
111	GND	112	PCIE_TXN10
113	PCIE_TXP10	114	GND
115	PCIE_TXP11	116	PCIE_TXP9
117	GND	118	PCIE_TXP11
119	PCIE_TXN11	120	GND

J120P2 Definition:

Pin	Signal Name	Pin	Signal Name
1	+12V	2	+12V
3	+12V	4	+12V
5	+12V	6	+12V
7	+12V	8	+12V
9	+12V	10	+12V
11	GND	12	GPIO40

13	PEWAKE-	14	PLTRST#
15	GND	16	DDI2_AUXN
17	DDI2_AUXP	18	GND
19	RXD2	20	TXD2
21	DSR_2	22	RTS_2
23	DTR_2	24	CTS_2
25	RI_2	26	DCD_2
27	GND	28	DDI2_TXN2
29	DDI2_TXP2	30	GND
31	DDI2_TXN0	32	DDI2_TXP0
33	GND	34	DDI2_TXN3
35	DDI2_TXP3	36	GND
37	DDI2_TXN1	38	DDI2_TXP1
39	GND	40	CLK_PCIE_3G#
41	CLK_PCIE_3G	42	GND
43	PCIE_TXP3	44	PCIE_TXN3
45	GND	46	DDI1_DDCCLK
47	DDI1_DDCDATA	48	DDI1_HPD
49	GND	50	USB_P5
51	USB_N5	52	GND
53	USB_N6	54	USB_P6
55	GND	56	USB_N7
57	USB_P7	58	GND
59	USB_N8	60	USB_P8
61	MIC2-L	62	MIC2-R
63	LINEOUT2-L	64	LINEOUT2-R
65	EAPD	66	AMP_L
67	AMP_R	68	SENSE_B
69	GND	70	GND
71	GND	72	GND
73	DDI1_AUXN	74	DDI1_AUXP
75	GND	76	PCIE_RXN3

77	PCIE_RXP3	78	GND
79	DDI1_TXP2	80	DDI1_TXN2
81	GND	82	DDI1_TXP0
83	DDI1_TXN0	84	GND
85	DDI1_TXP3	86	DDI1_TXN3
87	GND	88	DDI1_TXP1
89	DDI1_TXN1	90	GND
91	SATA_TXN1	92	SATA_TXP1
93	GND	94	SATA_RXN1
95	SATA_RXP1	96	GND
97	RTS_1	98	DSR_1
99	TXD1	100	RXD1
101	CTS_1	102	DTR_1
103	DCD_1	104	RI_1
105	GND	106	DDI1_HPD
107	DDI1_DDCDATA	108	DDI2_DDCCLK
109	PCTL_	110	RST_
111	FP_SPSW	112	HLED-
113	ZD_SPSW	114	+5V
115	+5V	116	+5V
117	+5V	118	+3.3V
119	+3.3V	120	+3.3V