



USER MANUAL

P1571Z-C6

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Appendix

Appendix one: Glossary of terms

Appendix Two: Common issue analysis and solution

Chapter 1 Product Introduction

1.1 Product Photo:



Image 1: P1571Y-C6 Front View



Image 2: P1571Y-C6 Lateral I/O View



Image 3: P1571Y-C6 Bottom I/O View

1.2 Dimension

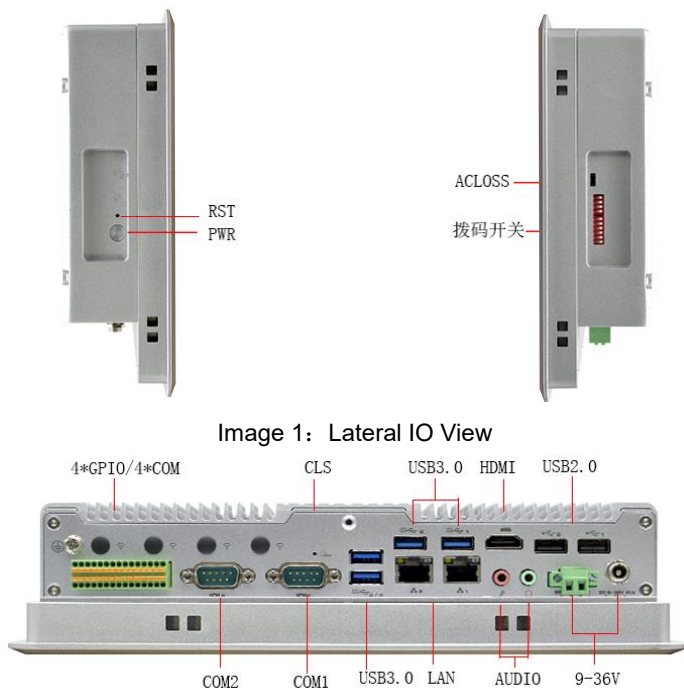


Image 1: Lateral IO View

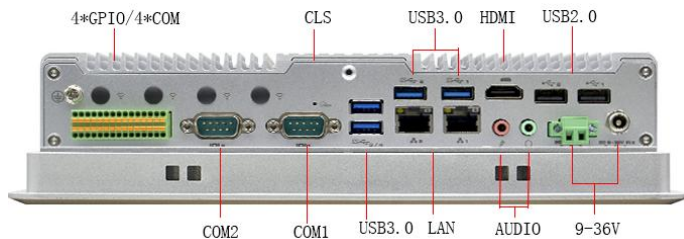
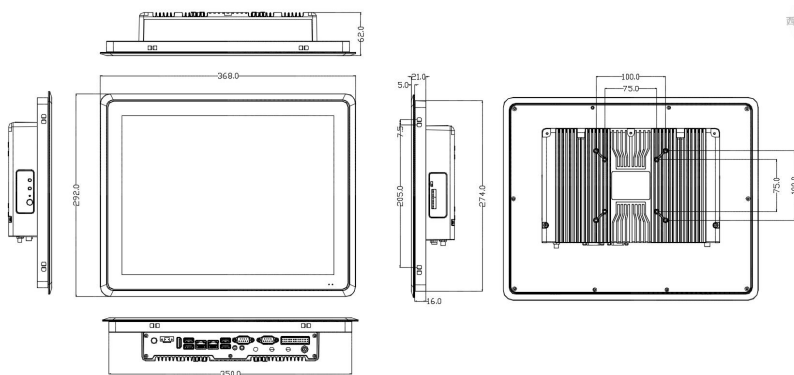


Image 2: Bottom IO View

1.3 Product Specification



P1571Y-C6 Dimension

1.4 Product Specification

- LCD Screen
 - 15" LCD, resolution 1024 * 768, 4: 3 screen, 350 cd/m²
- Touch Screen
 - Capacitive, support 10 point touch (can change to resistive touch screen)
- LAN
 - 2*Intel I210 Gigabit Ethernet, support Wake On LAN
- Audio
 - 1*Line out, 1*Mic
- COM Port
 - 6*RS232, COM1~2 RS232 DB9, COM2 support RS485/422, COM3~6 RS232 on 2*15pin Phoenix connector, COM3 support RS485 selectable, COM1~2 support pin9 5V/12V charging function
- Expansion Slot
 - 1*M.2/WiFi, support Key-E,2230, WiFi module
 - 1*M.2/5G, support Key-B,2242/52,5Gi module
- Storage
 - 1*2.5 SATA port
 - 1*M.2/SSD, support Key M, 2280, NVME PCIe4 SSD
 - 1*MSATA
- IO Port
 - 1*Power button, 1*One-key recovery (reset key optional, default one-key recovery)
 - 1*AC LOSS (auto power ON/OFF switch)
 - 1*Power LED, 1*HDD LED
 - 1*HDMI
 - 2*Intel I210 Gigabit Ethernet, support Wake On LAN

4*USB3.0, 2*USB2.0

1*Mic, 1*Line out

6*RS232 COM port,COM1~2 RS232 DB9,COM2 support RS485/422,COM3~6 RS232 on 2*15P Phoenix connector,COM3 support RS485,COM1~2 support the 9th pin charged function(5V/12V);

10-digit DIP switch, for RS232/485/422 selection

1*DC_In Jack and 1*2pin Phoenix connector, support 9-36V wide voltage input

➤ **Cooling System**

Fanless design

➤ **Watchdog**

Support hardware reset function (256 levels, 0~255 seconds)

➤ **Power Connector**

1*DC and 1*2P Phoenix connector, support DC 9-36V wide voltage input

➤ **Chassis**

Dimension: 272mm x 214mm x 62mm (L*W*H)

Installation: VESA/ Embedded

➤ **Working Environment**

Operating Temp.: -10°C~50°C

Relative Humidity: 5~90% relative humidity, non-condensing

Storage Temp.: -20°C~60°C

1.5 Packing

➤ **Packing Size:** 495mm x 395mm x 158mm (L*W*H)

➤ **N.W:** 3.8KG

➤ **G.W:** 5.3KG

➤ **Accessory List:**

Name	Qty
Buckle	2pcs

1.6 Order Information

Order Information

No.	Model	CPU	Memory	MSATA	HDMI	LAN	COM	USB	Power
1	P1571Z-C6 V1.0(J6412)	J6412/2.0G	2*SODDDR4	1	1	2	6	6	9-36V
2	P1571Z-C6 V1.0(7300U)	I5-7300U/2.6G	2*SODDDR4	1	1	2	6	6	9-36V
2	P1571Z-C6 V1.0(8260U)	I5-8260U/1.6G	2*SODDDR4	1	1	2	6	6	9-36V
2	P1571Z-C6 V1.0(10210U)	I5-10210U/1.6G	2*SODDDR4	1	1	2	6	6	9-36V
2	P1571Z-C6 V1.0(1135G7)	I5-1135G7/2.4G	2*SODDDR4	1	1	2	6	6	9-36V

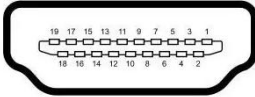
Above order information just for reference

Chapter 2 Operation Guide

2.1 Installation Steps

2.1.1 Display (HDMI)

The computer provides 1*HDMI port



HDMI signal definition

Pin	Signal Name	Pin	Signal Name
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	HRC Data-
15	SCL	16	SDA
17	GND	18	+5V
19	Hot Plug Detect		

2.1.2 Network (LAN1-2)

2*Intel I210 Gigabit Ethernet

Network LED Definition

Active/Link LED		SPEED LED	
State	Description	State	Description
Off	No Link	Off	10Mbps Connection
Blinking	Data Activity	Orange	100Mbps Connection
On	Link	Green	1Gbps Connection

2.1.3 Audio (Line-out/Mic)

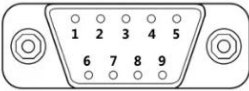
1*Line-out and 1*MIC port

2.1.4 Power Button (POWER)

1* Power button [PWR], 1*Reset button [RST], 1*Power LED [PWRLED], 1*HDD LED

2.1.5 COM Port (COM1-2)

COM1 RS232 DB9 COM port, COM2 RS232/485/422 DB9 port,COM3~6 RS232/485 on 2*15pin Phoenix connector,COM1~2 support the 9th pin charged function, COM2 and COM3 RS232/485 switching via dip switches, COM3 RS422 is realized by a combination of dip switches and the COM2_SW1 jump cap on the board, DIP switch please refer to 2.1.7, COM3~6 definition please refer to 2*15P Phoenix connector.



(COM Port Image)

COM1 RS232 Signal 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

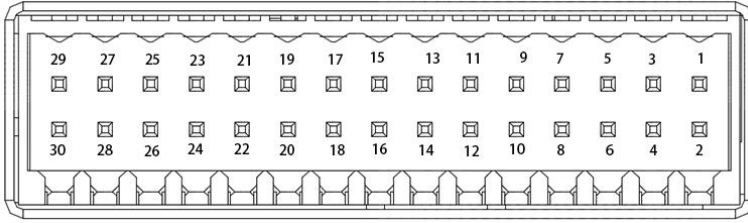
COM2 RS232/485/422 Signal Definition

Pin	Signal Name	Pin	Signal Name
1	DCD/RS485-	2	RXD/RS485+
3	TXD/RS422+	4	DTR/RS422-
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	NC

2.1.6 2*15P Phoenix Connector (4*GPIO/4*COM)

The board provide a 2*15p Phoenix connector, 4-in 4-out GPIO, 4*COM, power

button.

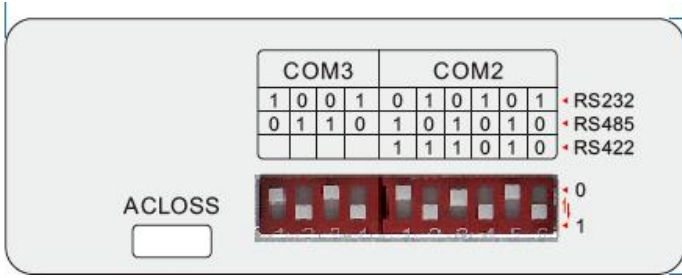


2*15p Phoenix Connector

2*15P Phoenix Connector Definition

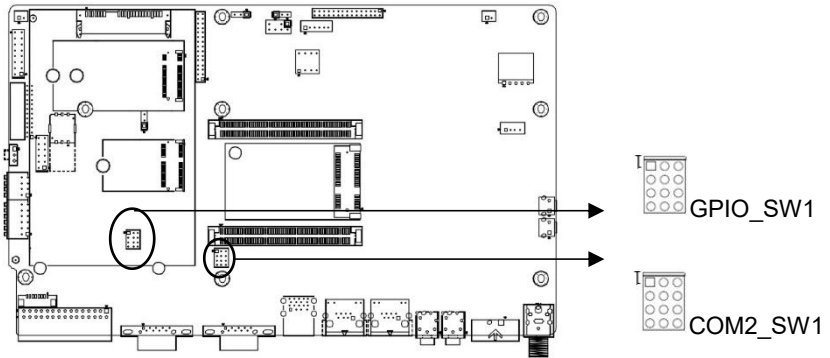
Pin	Signal Name	Pin	Signal Name
1	VCC	2	GPIO-GND
3	DI1	4	DO1
5	DI2	6	DO2
7	DI3	8	DO3
9	DI4	10	DO4
11	COM3_TXD	12	COM4_TXD
13	COM3_RXD_485+	14	COM4_RXD
15	COM3_485-	16	NC
17	GND	18	GND
19	COM5_TXD	20	COM6_TXD
21	COM5_RXD	22	COM6_RXD
23	NC	24	NC
25	GND	26	GND
27	+3.3V	28	FP_SPSW
29	GND	30	GND

2.1.7 DIP Switch (10 digit)

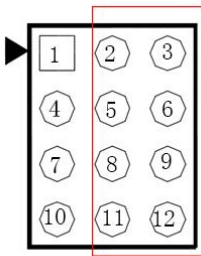


10-digit DIP switch image

COM2 RS232/RS485/RS422 selection via 6-digit DIP switch + COM2_SW1 (COM2_SW1 on P1081-C6 I/O board) jumper, COM3 RS232/RS485 selection via 4-digit DIP switch.

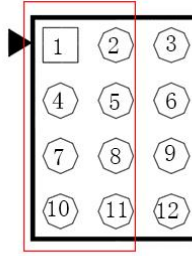


(P1081-C6 Graphics)



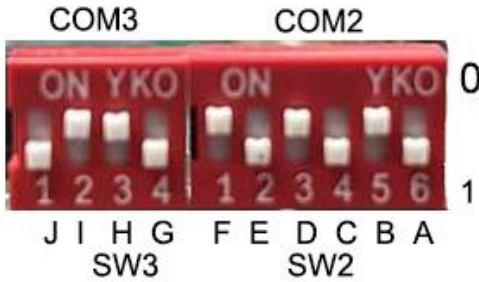
COM2_SW1

COM2 RS232/485 COM2_SW Setting



COM2_SW1

COM2 RS422 COM2_SW Setting



10-digit DIP switch image

COM2 RS232/485/RS422 Setting

	A	B	C	D	E	F
RS232	1	0	1	0	1	0
RS485	0	1	0	1	0	1
RS422	0	1	0	1	1	1

Note:COM2 RS232/485/422 also need COM_SW1 jumper setting on

P1081-C6

COM2_SW1 (COM2 RS232/485/422) Setting

Function	COM2_SW1 Setting
RS232/485	Short connect 2-3 , 5-6, 8-9, 11-12 pin
RS422	Short connect 1-2, 4-5, 7-8, 10-11 pin

COM3 RS232/485 Setting

	G	H	I	J
RS232	1	0	0	1
RS485	0	1	1	0

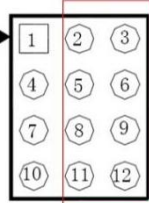
GPIO Charging Function Setting

Function	GPIO_SW1 Setting
+12V	Short connect 2-3 , 5-6, 8-9, 11-12 pin
+5V	Short connect 1-2, 4-5, 7-8, 10-11 pin



GPIO_SW1

GPIO 5V Setting

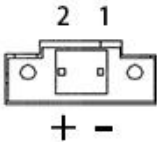


GPIO_SW1

GPIO 12V Setting

2.1.8 Power (9-36V)

Provide 1*DC adaptor port and 1*2pin Phoenix connector, support 9-36V input



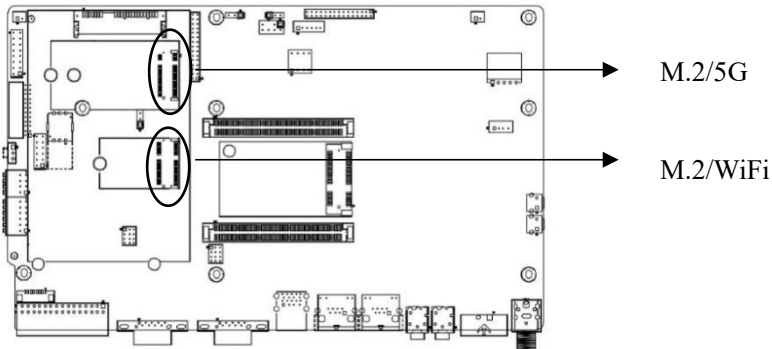
1*2pin Phoenix Connector Definition

Pin	Signal Name	Pin	Signal Name
1	GND	2	VCC

2.1.9 Expansion Slot (M.2)

1* M.2/WiFi, support Key-E, 2230, WiFi module

1* M.2/5G, support Key-B, 2242/52, 5G module



Tips: . Please use a dedicated power adapter. 2. How to identify the alarm sound: (a long beep is system memory error; a short beep" is boot sound).