

Gm-J1900D12-E2-J

Motherboard

# User Guide

VER 2.0

## 版权信息

## 免责声明

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# 1

## 1.1

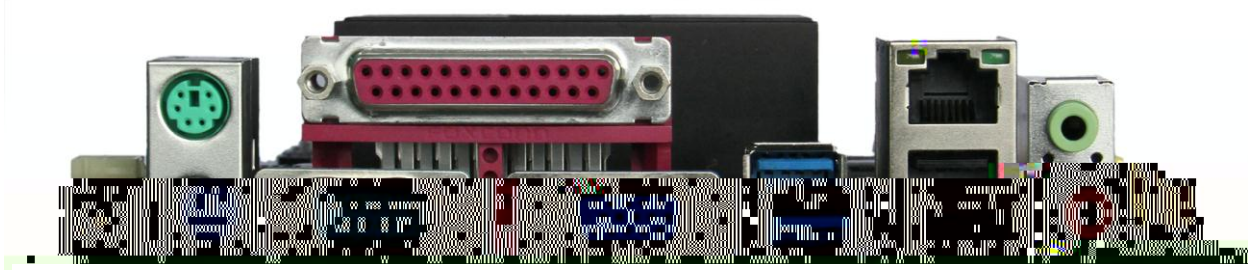
### 1.3

System									
<b>CPU/GPU</b>	Intel® Bay Trail J1900		2.0GHz CPU		2.42GHz				
	1×	DDR3L 1333Hz		8GB					
	1×SATA		1×mSATA						
	Realtek ALC662		5.1						
	1×Realtek RTL8105E		PCI-E						
	1×MINI PCI-E		(WIFI/3G)						
<b>LVDS/EDP</b>	24-bit LVDS		1920		1200				
	VGA	JVGA	EDP1	EDP2	/				
<b>COM</b>	2×COM RS-232(COM2)		5V/12V)						
<b>USB</b>	9×USB2.0/1.1(3		IO 6		) 1×USB3.0				
<b>I/O</b>	1×DC_IN	1×PS/2	1×LPT	1×COM	1×VGA	1×USB	1×LAN_USB	1×AUDIO	

#### I/O

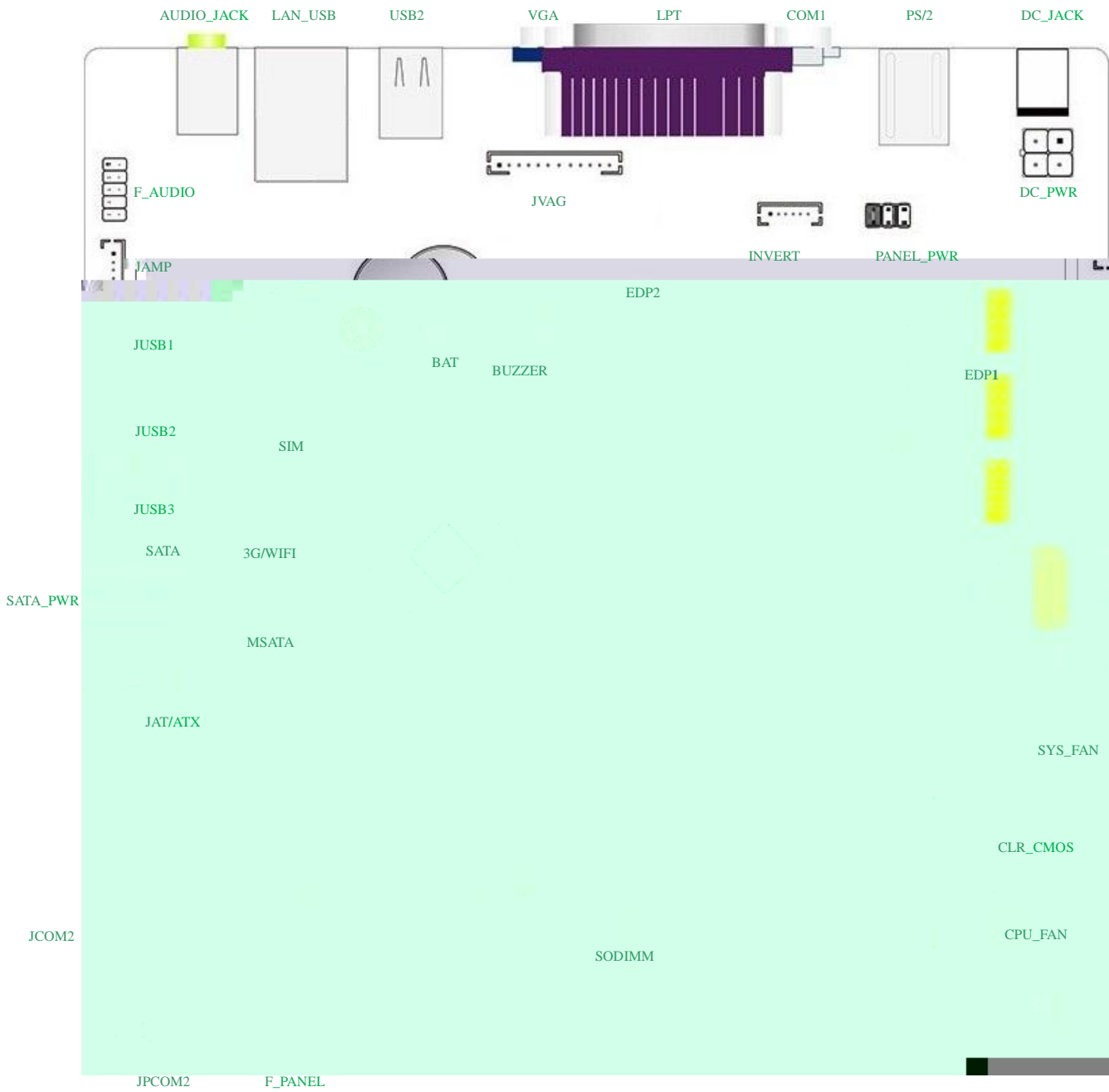
Mechanical & Environmental			
DC 12V		(L×W)	170mm×170mm
0~50		-40~75	0~90%
<b>POS</b>			

### 1.4



DC-JACK	PS/2	COM1	LPT	VGA	USB2	LAN-USB1	Audio
DC-JACK		DC 12V					
PS/2							
COM		COM					
LPT							
VGA							
USB2		USB2.0(	)+	USB 3.0			
LAN_USB		+USB2.0					
Audio							

1.5



1pin

## 2

## 2.1 CPU

Intel® Bay Trail J1900

2.0GHz CPU

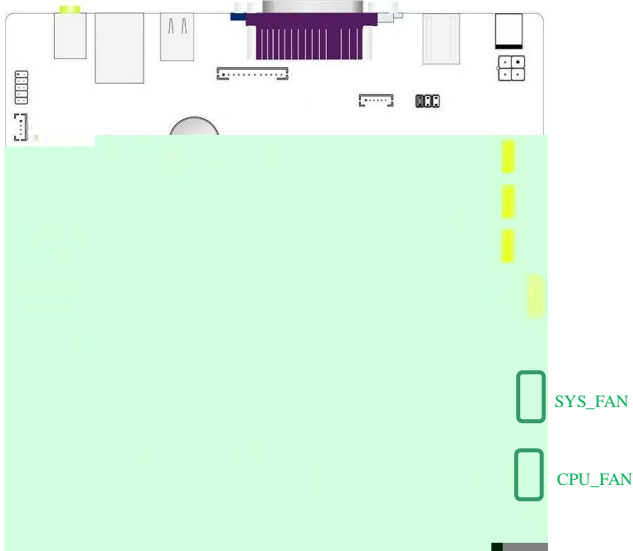
2.42GHz

## 2.2

CPU

FAN1 CPU 风扇插针

FAN2 系统风扇插针



Pin	定义
1	GND
2	+12V
3	

## 2.3

### DIMM 内存插槽 (SO-DIMM)



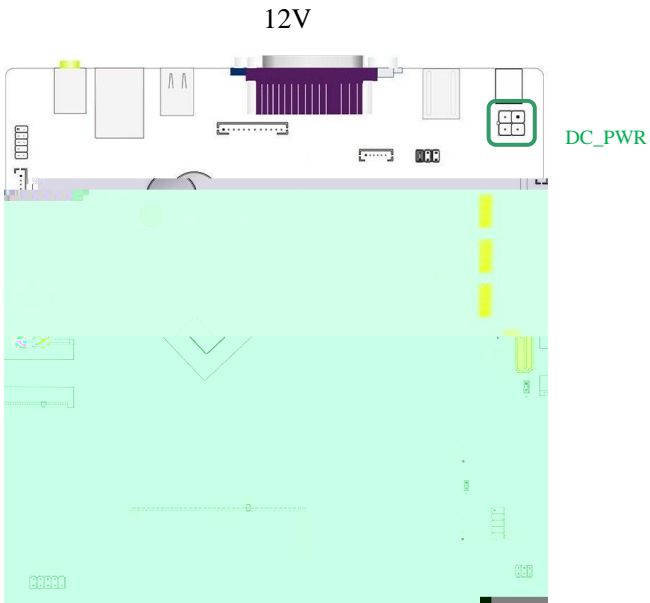
插槽位置	PIN	电压	支持内存频率	最大容量
<b>DIMM</b>	204	1.35V	1333MHz	8GB

1

30

2

## 2.4



DC\_PWR



Pin	定义
1	GND
2	GND
3	12V
4	12V

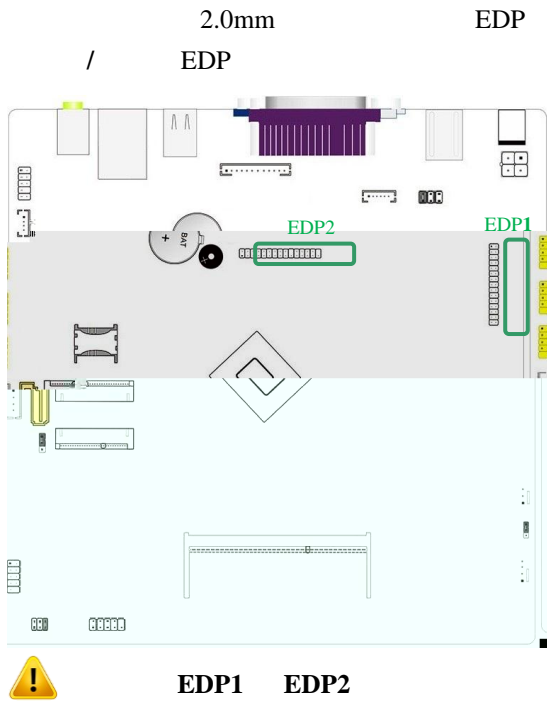
⚠ DC\_PWR

I/O DC\_jack

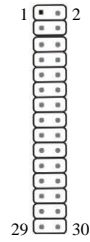
2.5 / / /

2.5.1 EDP INVERT PANEL\_PWR JVGA

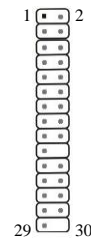
EDP



EDP1



EDP2



EDP1(背光线接 INVERT)

PIN	定义	PIN	定义
1	VCC	2	VCC
3	VCC	4	GND
5	GND	6	GND
7	ADO0-	8	ADO0+
9	ADO1-	10	ADO1+
11	ADO2-	12	ADO2+
13	GND	14	GND
15	ACLK-	16	ACLK+
17	AD03-	18	AD03+
19	BDO0-	20	BDO0+
21	BDO1-	22	BDO1+
23	BDO2-	24	BDO2+
25	GND	26	GND
27	BCLK-	28	BCLK+
29	BDO3-	30	BDO3+

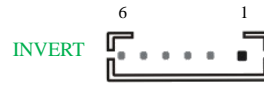
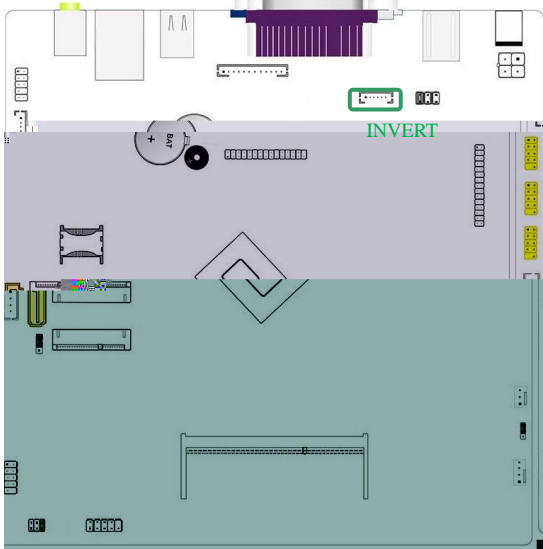
EDP2(集成背光)

PIN	定义	PIN	定义
1	VCC	2	VCC
3	GND	4	GND
5	EDP_DO0+	6	NC( )
7	EDP_DO -	8	NC( )
9	GND	10	GND
11	EDP_DO +	12	NC( )
13	EDP_DO -	14	NC( )
15	GND	16	GND
17	EDP_AUX+	18	EDP_HPD
19	EDP_AUX	20	
21	GND	22	GND
23	GND	24	GND
25	eDP0_BKLEN	26	eDP0_BKLCTRL
27	VCC12_IO	28	VCC12_IO
29	VCC12_IO	30	

INVERT

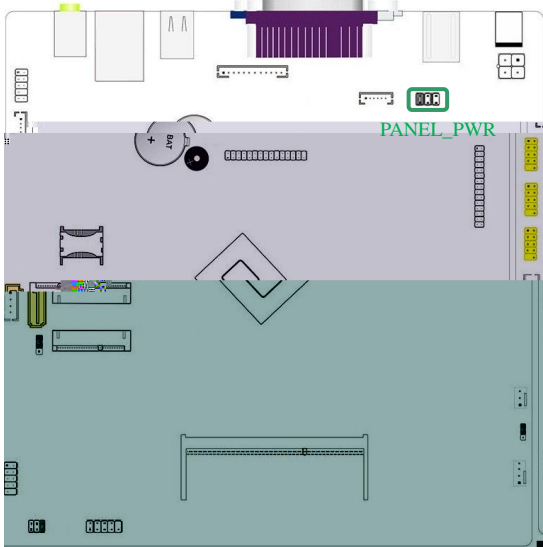
1 6pin INVERT

EDP1



Pin	定义
1	+12V
2	+12V
3	ENABLE
4	PWM
5	GND
6	GND

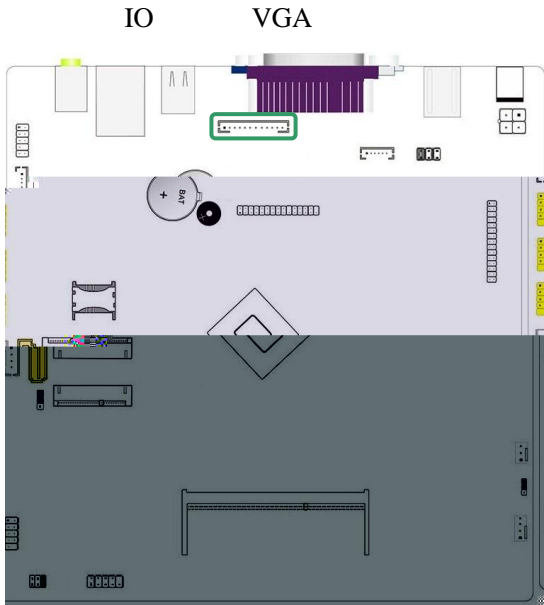
PANEL\_PWR



Pin	定义
1-2	3.3V ( )
3-4	5V
5-6	12V



JVGA



VGA



PIN	定义	PIN	定义
1	GND	7	Green
2	VSYNC	8	GND
3	HSYNC	9	Blue
4	GND	10	GND
5	Red	11	DDCDATA
6	GND	12	DDCCLK

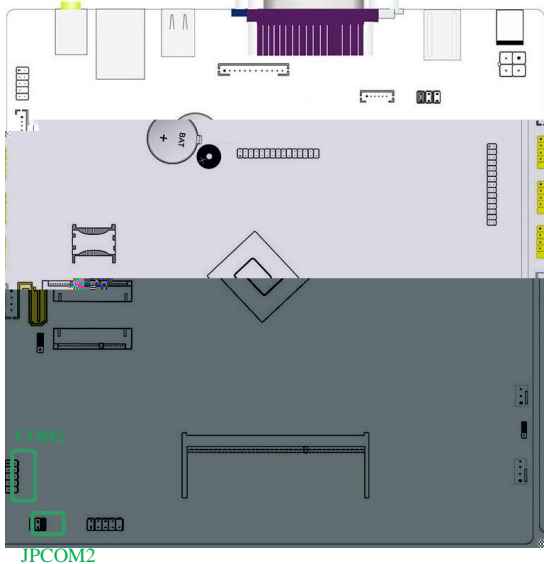
1 VGA      1 VGA      2 EDP

组合模式	双显功能
VGA + EDP1	/
VGA + EDP2	/
EDP1 + EDP2	/

2.5.2

COM JPCOM F\_USB F\_AUDIO JAMP

COM2 RS-232 5V/12V



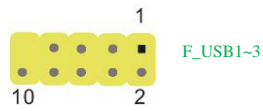
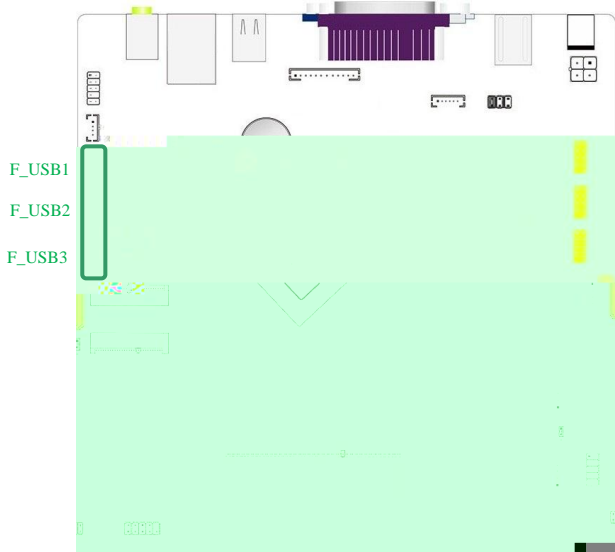
PIN	定义	PIN	定义
1	DCD#	2	RXD
3	TXD	4	DTR#
5	GND	6	DSR#
7	RTS#	8	CTS#
9	RI#/( )	10	NC

COM RI



Pin	定义
1-2	+5V
3-4	+12V
5-6	RI

## F\_USB1~3



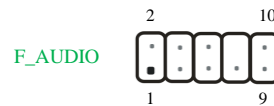
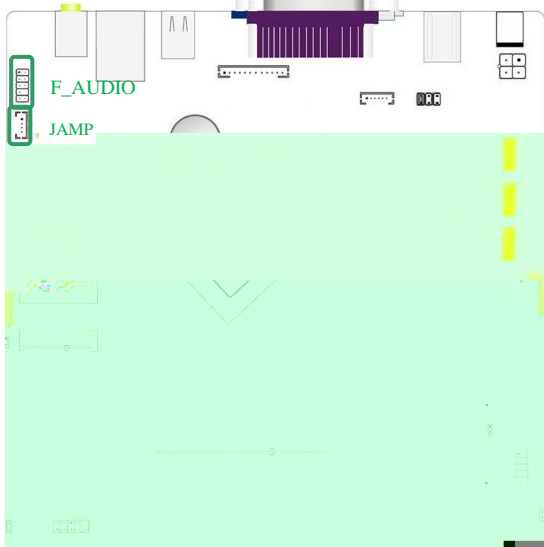
PIN	定义	PIN	定义
1	+5V	2	+5V
3	USB1_Data-	4	USB2_Data-
5	USB1_Data+	6	USB2_Data+
7	GND	8	GND
9		10	GND_CHASSIS

## F\_AUDIO JAMP

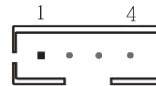
### F\_AUDIO 前置音频插针

## JAMP

2.6W 2



PIN	定义	PIN	定义
1	MIC-L	2	AGND
3	MIC-R	4	NC
5	LINEOUT-R	6	MIC SENSE
7	AGND	8	
9	LINEOUT-L	10	LINEOUT SENSE



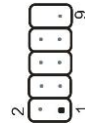
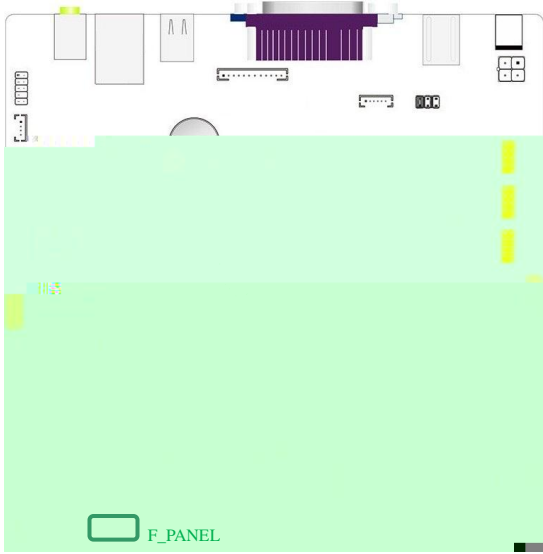
JAMP

PIN	定义
1	AMP_R-
2	AMP_R+
3	AMP_L+
4	AMP_L-

## 2.5.3 F\_PANEL CLR\_CMOS AT\_SEL

### F\_PANEL

10PIN

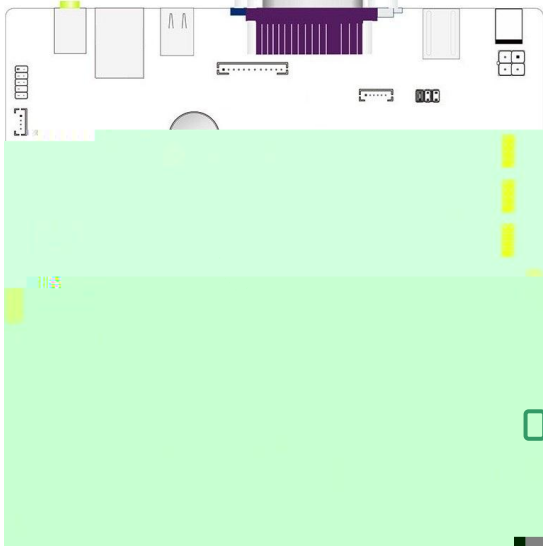


PIN	定义	PIN	定义
1	HDD_LED+	2	PWR_LED+
3	HDD_LED-	4	GND
5	RESET GND	6	PWR_ON GND
7	RESET	8	PWR_ON
9	GND	10	

### CLR\_CMOS

Pin2-3

BIOS



Pin	定义
1-2	Normal
2-3	Clear CMOS

### CMOS

“Pin 2-3 ”

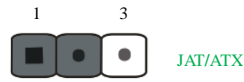
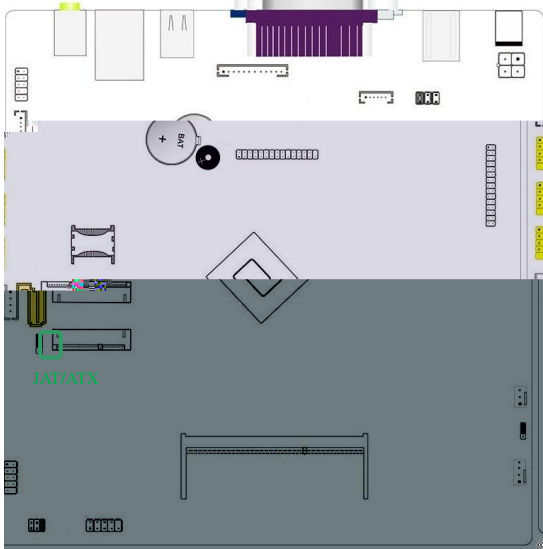
5

“Pin 1-2 ”

CMOS

AT\_SEL

ATX/AT



Pin	定义
1-2	ATX
2-3	AT

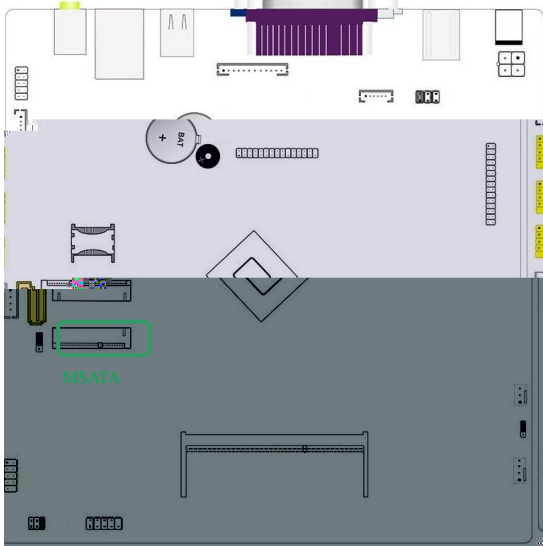
2.5.4

MSATA SATA 3G/WIFI SATA\_PWR

MSATA

mSATA

SSD



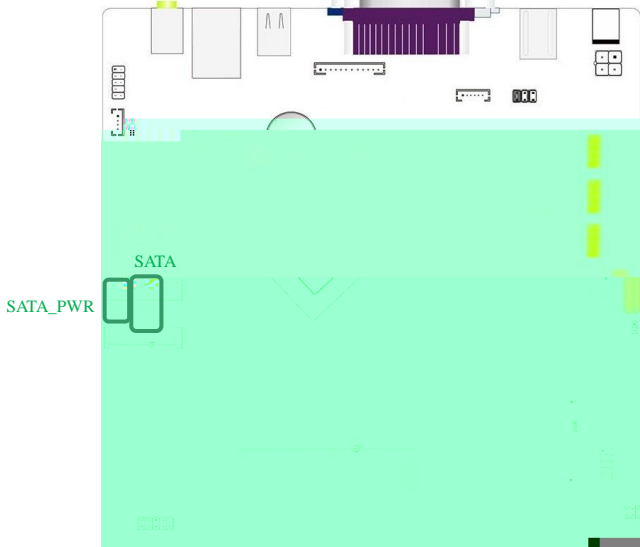
MSATA



### SATA 3.0 /SATA\_PWR

SATA\_PWR 5V 12 SATA3.0

6Gb/s



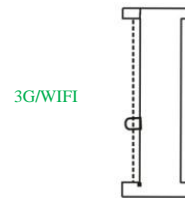
1	+12V	2	GND
3	GND	4	+5V



! SATA\_PWR

### Mini PCI-E 3G/WIFI

WIFI/3G



! SSD

