

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

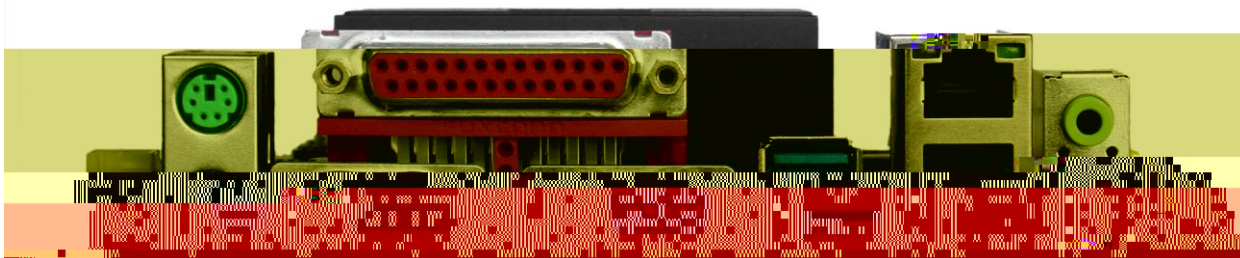
1.3

System									
CPU/GPU	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)						
LVDS/EDP	24-bit LVDS			1920 1200					
	VGA	JVGA	EDP1	EDP2	/				
COM	2×COM RS-232(COM2			5V/12V)					
USB	9×USB2.0/1.1(3		IO 6) 1×USB3.0				
I/O	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%
POS			

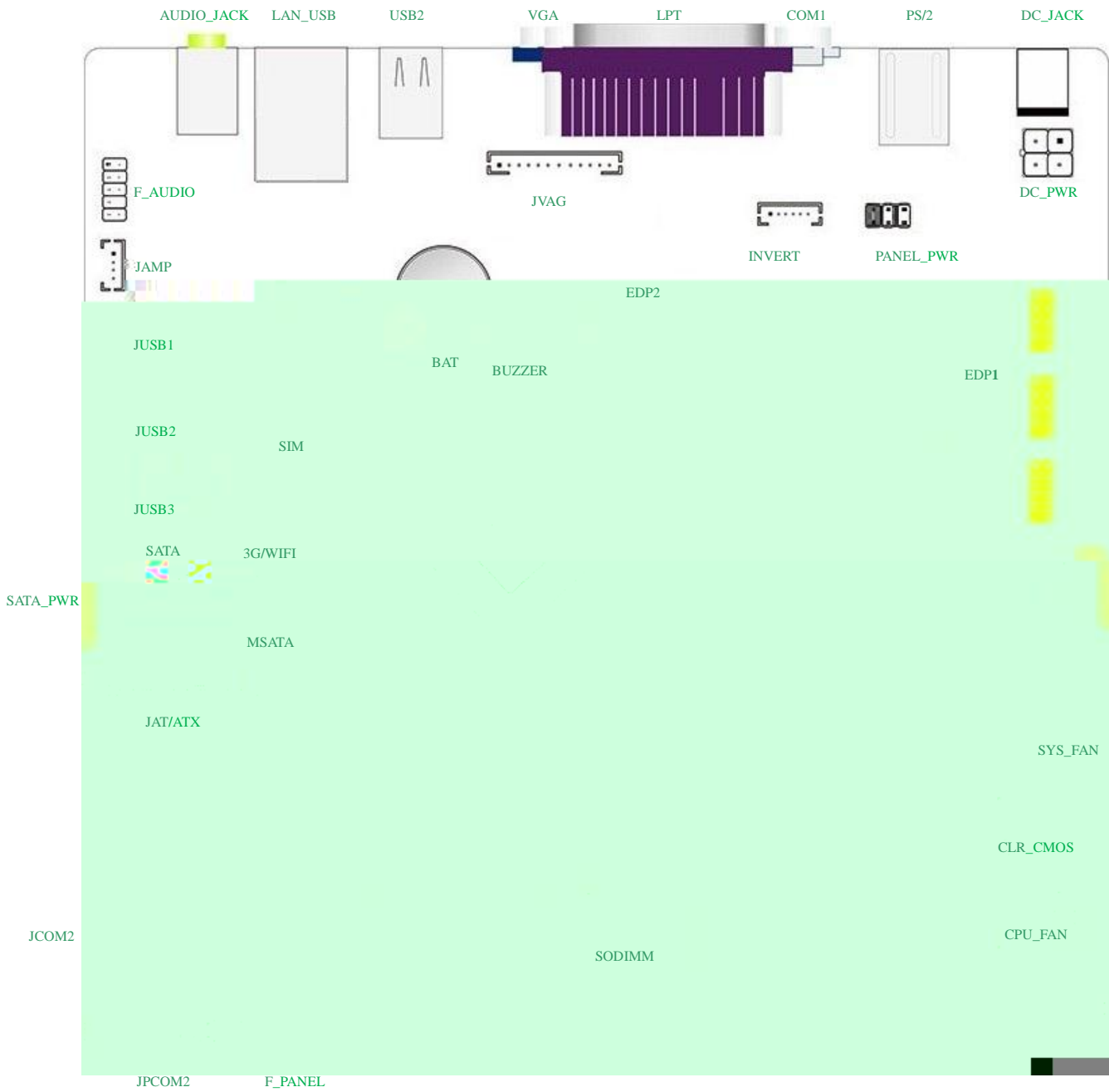
1.4



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

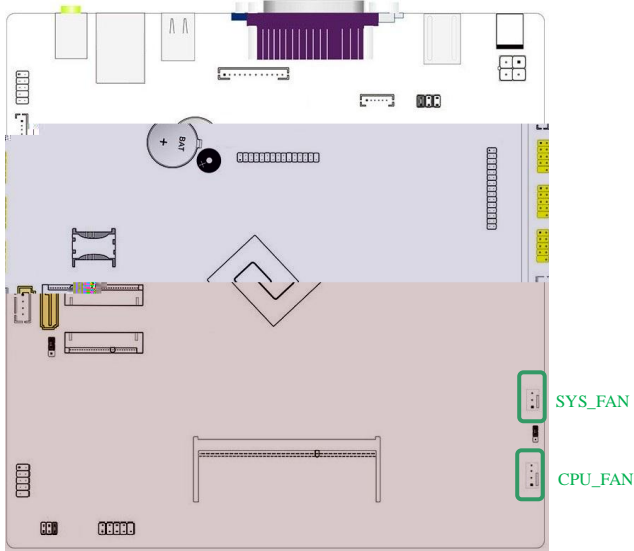
2.42GHz

2.2

CPU

FAN1 CPU 风扇插针

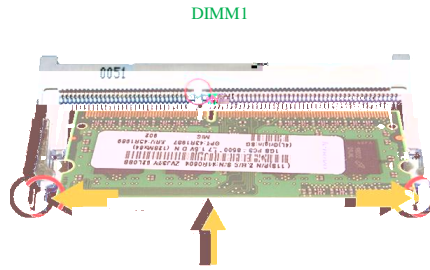
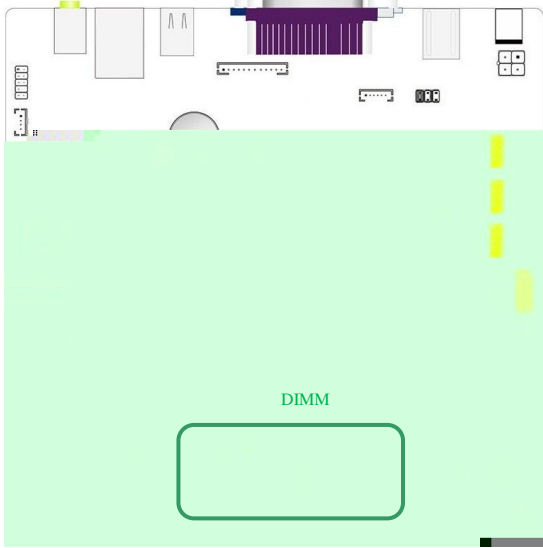
FAN2 系统风扇插针



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
DIMM	204	1.35V	1333MHz	8GB

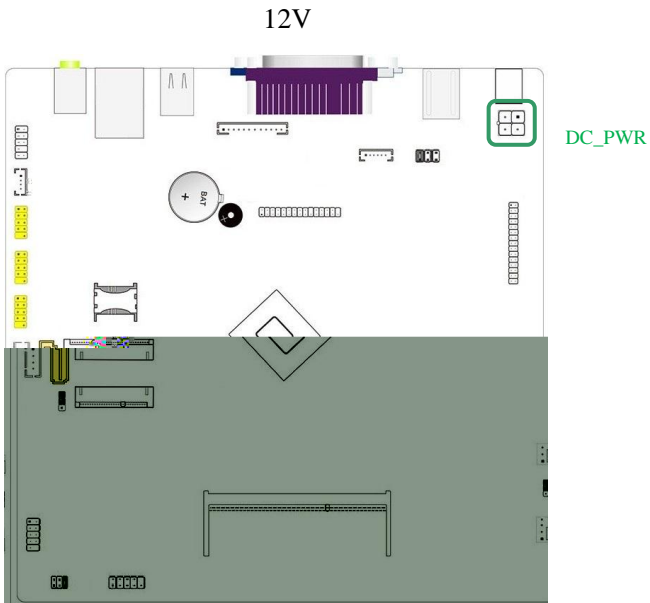
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2

2.4



DC_PWR



Pin	定义
1	GND
2	GND
3	12V
4	12V

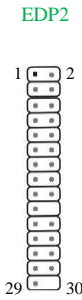
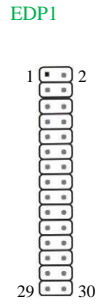
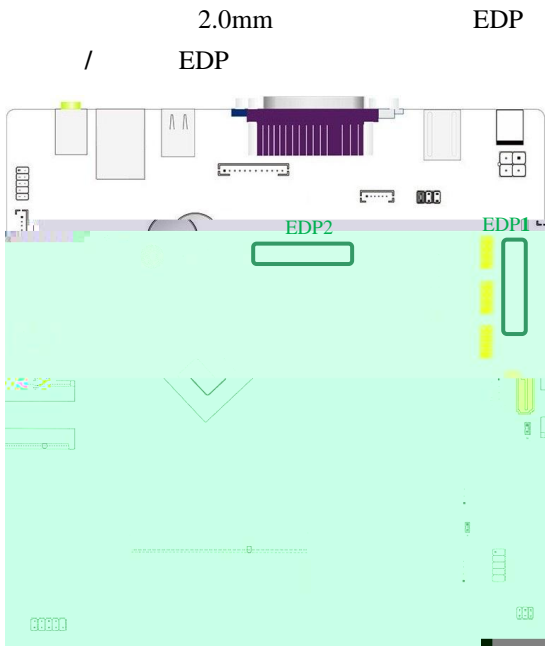
DC_PWR

I/O DC_jack

2.5 / / /

2.5.1 EDP INVERT PANEL_PWR JVGA

EDP



EDP1 EDP2

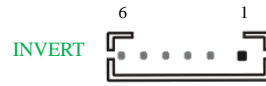
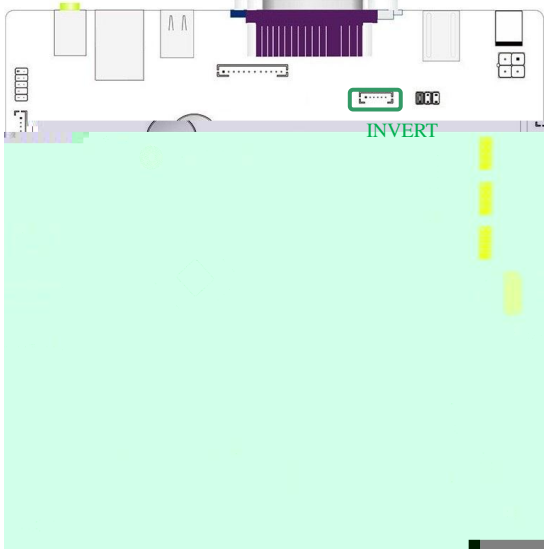
EDP1(背光线接 INVERT)			
PIN	定义	PIN	定义
1	VCC	2	VCC
3	VCC	4	GND
5	GND	6	GND
7	ADO0-	8	ADO0+
9	ADO1-	10	ADO1+
11	ADO2-	12	ADO2+
13	GND	14	GND
15	ACLK-	16	ACLK+
17	AD03-	18	AD03+
19	BDO0-	20	BDO0+
21	BDO1-	22	BDO1+
23	BDO2-	24	BDO2+
25	GND	26	GND
27	BCLK-	28	BCLK+
29	BDO3-	30	BDO3+

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_HPDP
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

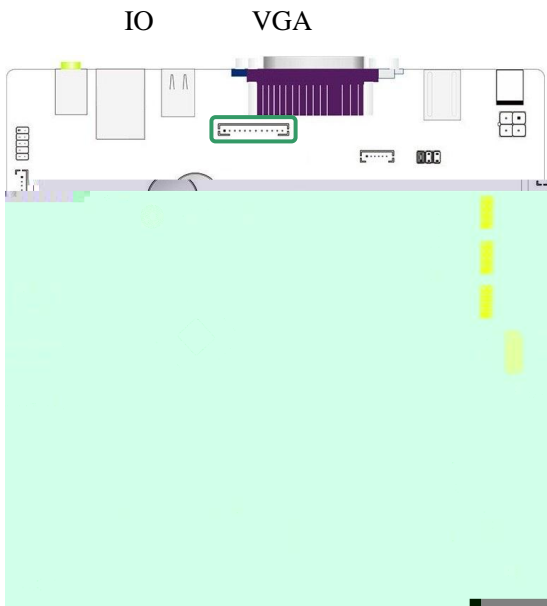
PANEL_PWR



Pin	定义
1-2	3.3V ()
3-4	5V
5-6	12V



JVGA



VGA

VGA HI



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

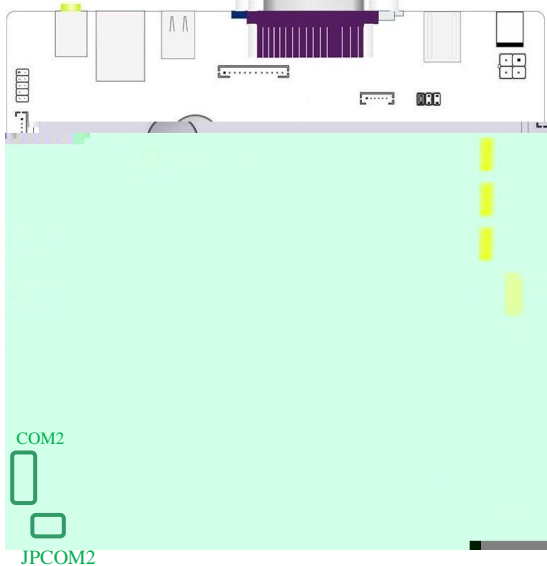
1 VGA 1 VGA 2 EDP

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

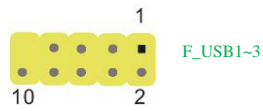
COM RI

JPCOM2



Pin	定义
1-2	+5V
3-4	+12V
5-6	RI

F_USB1~3

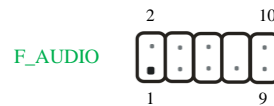
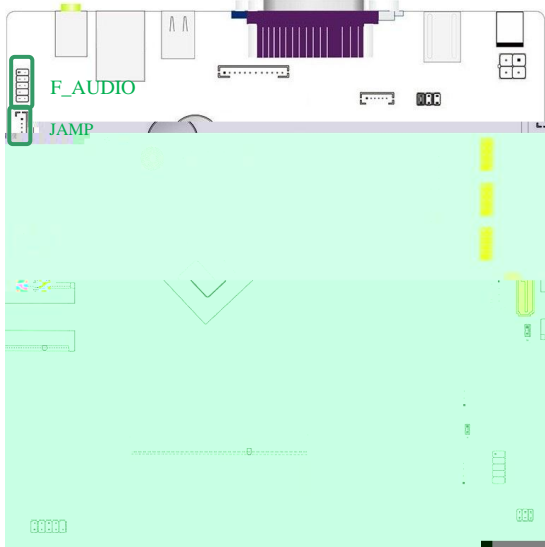


PIN	定义	PIN	定义
1	+5V	2	+5V
3	USB1_Data-	4	USB2_Data-
5	USB1_Data+	6	USB2_Data+
7	GND	8	GND
9		10	GND_CHASSIS

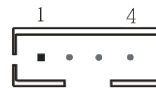
F_AUDIO JAMP F_AUDIO 前置音频插针

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



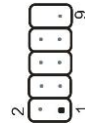
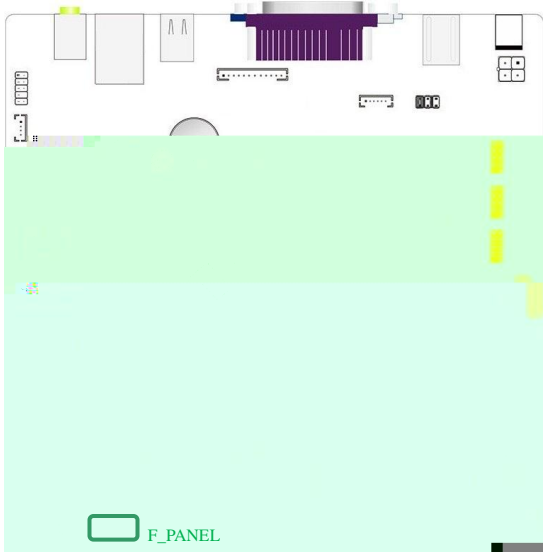
JAMP

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

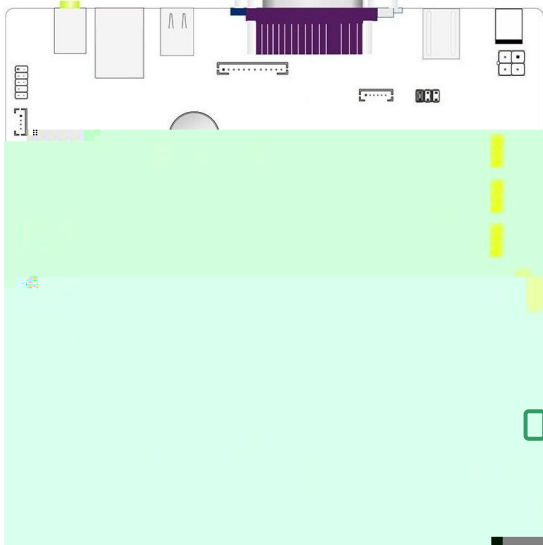


PIN	定义	PIN	定义
1	HDD_LED+	2	PWR_LED+
3	HDD_LED-	4	GND
5	RESET GND	6	PWR_ON GND
7	RESET	8	PWR_ON
9	GND	10	

CLR_CMOS

Pin2-3

BIOS



Pin	定义
1-2	Normal
2-3	Clear CMOS

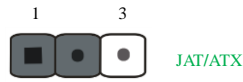
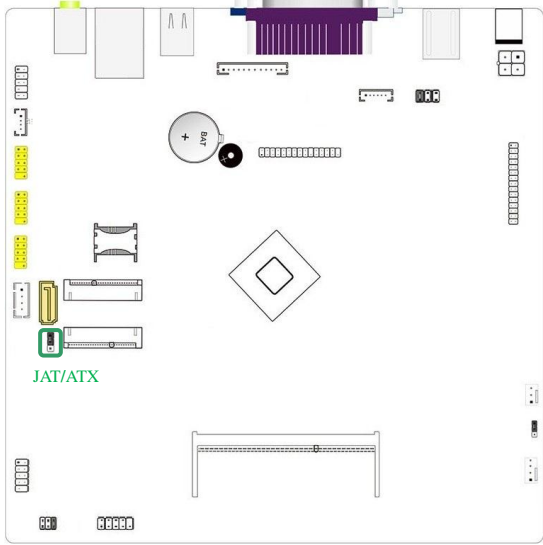
CMOS

5 -3
1-2

CMOS

AT_SEL

ATX/AT



Pin	定义
1-2	ATX
2-3	AT

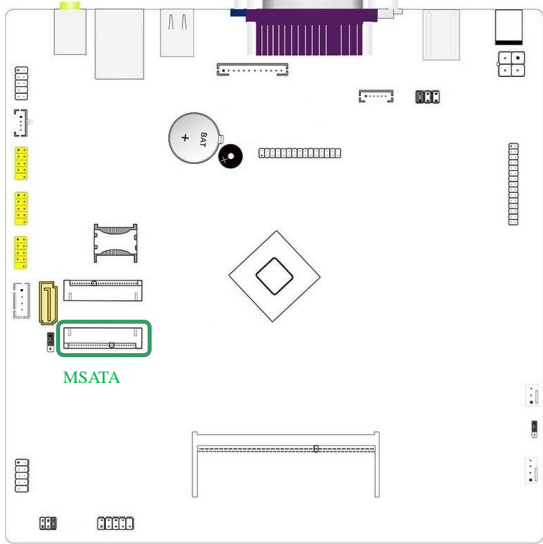
2.5.4

MSATA SATA 3G/WIFI SATA_PWR

MSATA

mSATA

SSD



MSATA

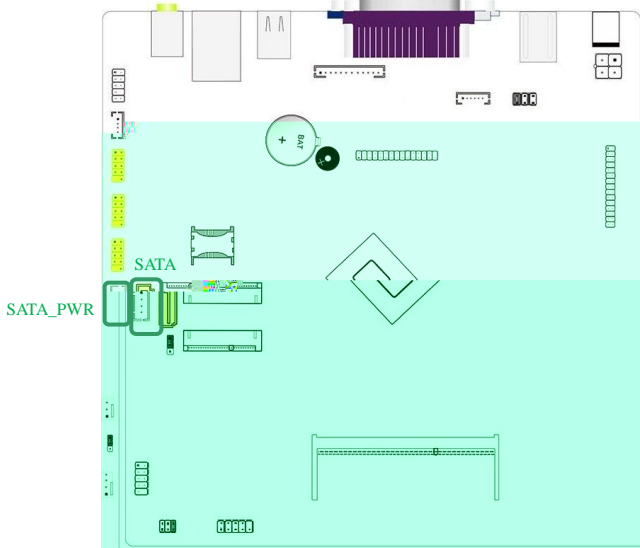


SSD

SATA 3.0 /SATA_PWR

SATA_PWR 5V 12 SATA3.0

6Gb/s



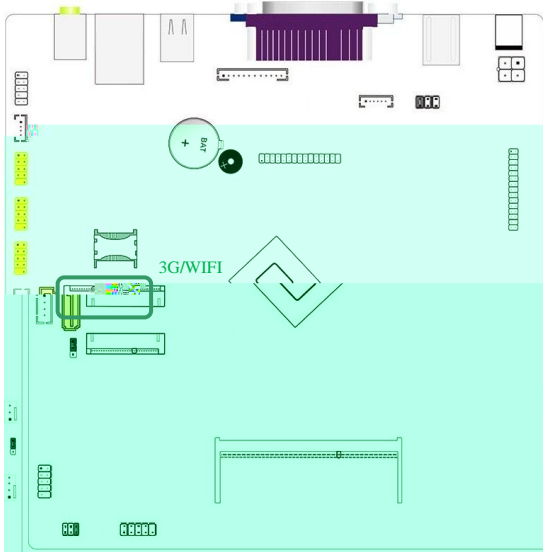
1	+12V	2	GND
3	GND	4	+5V



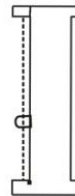
⚠ SATA_PWR

Mini PCI-E 3G/WIFI

WIFI/3G



3G/WIFI



⚠ SSD

