

# [JSLK53]

[User's Manual用户手册]



**六联智能**  
**SIXUNITED**

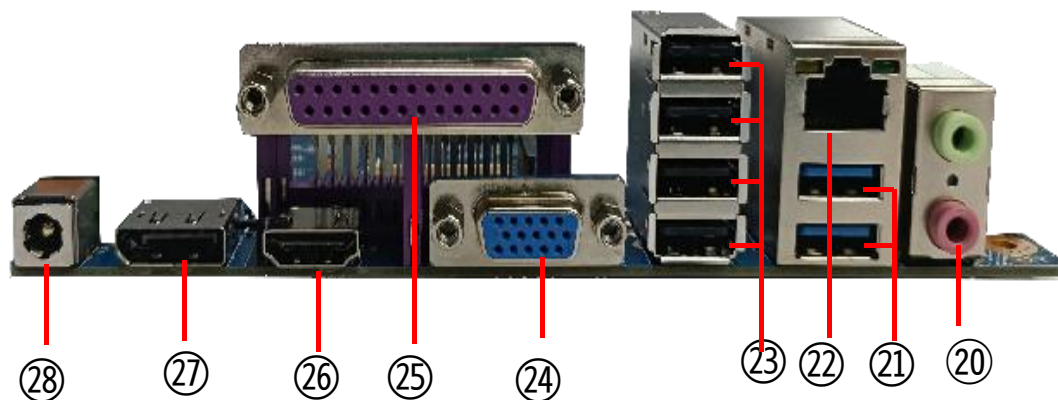
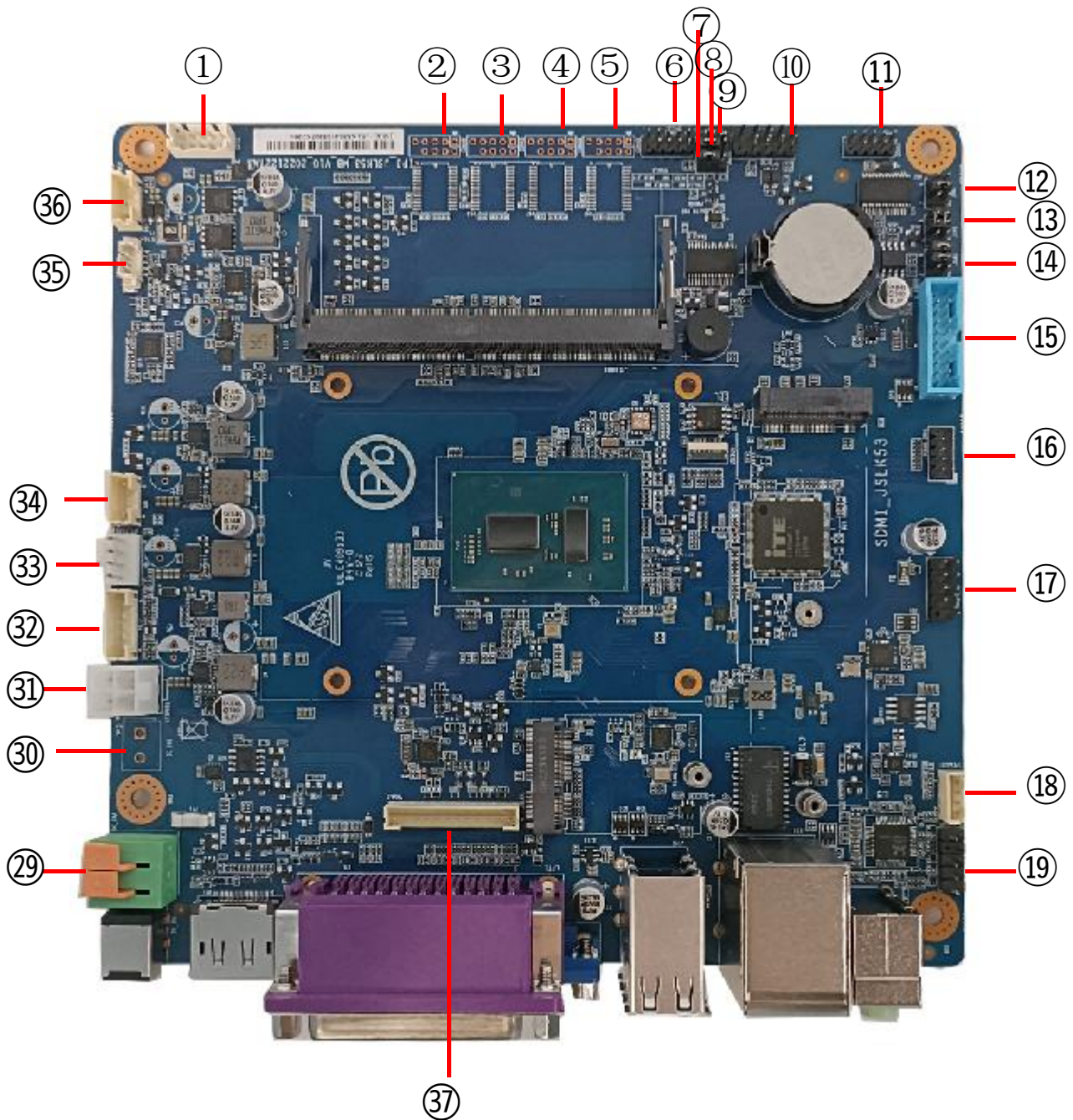
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# 1. Specifications产品规格

Model	JSLK53
CPU 中央处理器	Support Intel Jasper Lake CPU 15W <b>JSLK53-SKU#1:</b> N5105/4C/4T/Burst Freq 2.9 Ghz/TDP up to 10W <b>JSLK53-SKU#2:</b> N5105/4C/4T/Burst Freq 2.9 Ghz/TDP up to 10W <b>JSLK53-SKU#3:</b> N5095/4C/4T/Burst Freq 2.9 Ghz/TDP up to 15W <b>JSLK53-SKU#4:</b> N5095A/4C/4T/Burst Freq 2.9 Ghz/TDP up to 15W
Memory 内存	1*DDR4 SO-DIMM, Single Channel, Up to 16GB
Graphics 显示	1*HDMI 1.4b, Maximum resolution 4096x2160@30Hz 1*VGA, Maximum resolution 1920x1200@60Hz 1*DP,Maximum resolution 4096x2160@60Hz
Storage 存储	1*M.2 M Key 2242/2280 PCIE SSD
LAN 网络	1*Realtek RTL8111H 1000M LAN
Serial Port 串口	2COM COM1 RS232/485 optional, COM2 RS232
Rear IO 后IO接口	1*12V DC_IN 1*2 layer USB3.2 Gen2+1*RJ45 1*4 layer USB2.0 1*VGA 1*HDMI 1*DP 1*LPT 1*Line_out+1*MIC_IN
Front I/O 前IO接口	NA
Internal I/O 内部接口	1*M.2 2230 for WIFI(PCie&USB) 1*M.2 2242/2280 for SSD(PCIE) 1*USB3.0 Header(2*10) 1*USB2.0 Header(2*5) 1*F PANEL 1*F AUDIO 1*Internal Stereo Speaker 1*12V SYS FAN 1*5V CPU FAN 1*Auto Power switch 1*VGA 1*PS2 2*COM 1*Debug CON 1*GPIO 1*Cash Drawer 1*Clear CMOS 1*SM BUS 1*DC Jack 1*SPK
Size 主板尺寸	170mm *170mm
Temperature 温度	Operation: -10~60°C, Storage: -40~85°C
Relative Humidity 湿度	Operation: 10~90%, Storage: 5~95%
Power Input 供电	DC 12V

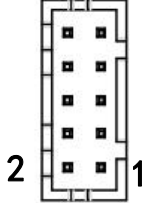
## 2. Locations接口分布



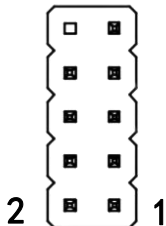
Locations	
1	GPIO
2	COM6
3	COM5
4	COM4
5	COM3
6	COM2
7	AUTO PWR ON
8	PWR ON
9	CLEAR CMOS
10	FPANEL
11	COM1
12	JPW1
13	JSW2
14	JSW1
15	USB 3.0 (2*10)Missing second PIN
16	DEBUG CON
17	USB 2.0 (2*5)Missing ninth PIN
18	Speaker
19	F_AUDIO
20	1*Line_out+1*MIC_IN
21	2*USB 3.2 Gen1
22	RJ45
23	4*USB 2.0
24	VGA
25	LPT
26	HDMI
27	DP
28	DC_IN1
29	DC_IN2
30	DC_IN3
31	ATX PWR
32	PS/2
33	SYS_FAN
34	SMB
35	CPU_FAN
36	DRAWER
37	VGA2

### 3. Connector and Jumper Setting 引脚定义


#### 1) GPIO

Graphic	PIN	Define	PIN	Define
	1	GPIO_C_1	2	GPIO_C_2
	3	GPIO_C_3	4	GPIO_C_4
	5	GPIO_C_5	6	GPIO_C_6
	7	GPIO_C_7	8	GPIO_C_8
	9	VCC_GPIO (5V)	10	GND

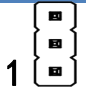
#### 2) COM2

Graphic	PIN	Define	PIN	Define
	1	COM2_DCD_CN	2	COM2_RXD_CN
	3	COM2_TXD_CN	4	COM2_DTR_CN
	5	GND	6	COM2_DSR_CN
	7	COM2_RTS_CN	8	COM2_CTS_CN
	9	COM2_RI_CN		

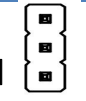
#### 3) AUTO PWR ON

Graphic	Setting	Function
	1-2	AT Mode
	2-3 (Default)	ATX Mode

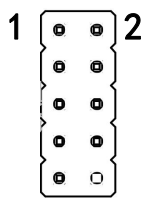
#### 4) PWR ON

Graphic	Setting	Function
	1-2	AT Mode
	2-3 (Default)	ATX Mode

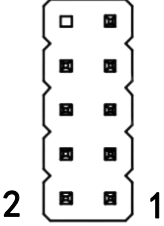
#### 5) CLEAR CMOS

Graphic	Setting	Function
	1-2	Clear CMOS
	2-3 (Default)	Normal

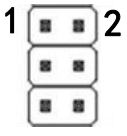
#### 6) FPANEL

Graphic	PIN	Define	PIN	Define
	1	HDLED+	2	PWRLED+
	3	HDLED-	4	GND
	5	GND	6	PWRRSW_N
	7	RERST_BTN	8	GND
	9	NA		

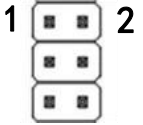
## 7) COM1

Graphic	PIN	Define	PIN	Define
	1	COM1_DCD_CN or RS485 N1	2	COM1_RXD_CN or RS485 P1
	3	COM1_TXD_CN	4	COM1_DTR_CN
	5	GND	6	COM1_DSR_CN
	7	COM1_RTS_CN	8	COM1_CTS_CN
	9	COM2_RI_CN		

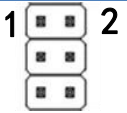
## 8) JPW1(COM1)

Graphic	Setting	Function
	1-2 3-4	5V
	3-4(Default)	RI
	3-4 5-6	12V

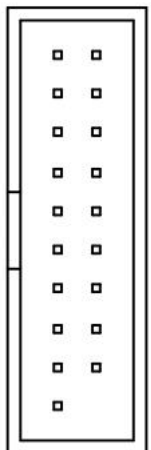
## 9) JSW2(COM1)

Graphic	Setting	Function
	1-3 2-4	RS232
	3-5 4-6(Default)	RS485

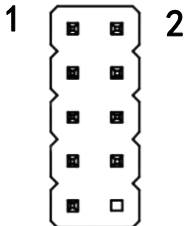
## 10) JSW1(COM1)

Graphic	Setting	Function
	1-2	RS232
	3-4 5-6(Default)	RS485

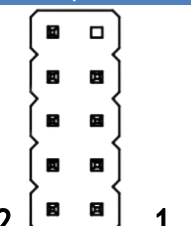
## 11) USB 3.0

Graphic	PIN	Define	PIN	Define
	1	+V5P0A_USB_HEADE R	2	NC
	3	USB3_HEADER2_RXN	4	+V5P0A_USB_HEADE R
	5	USB3_HEADER1_RXN	6	USB3_HEADER2_RXP
	7	GND	8	USB3_HEADER1_RXP
	9	USB3_HEADER2_TXN	10	GND
	11	USB3_HEADER2_TXP	12	USB3_HEADER1_TXN
	13	GND	14	USB3_HEADER1_TXP
	15	USB2_DN	16	GND
	17	USB2_DP	18	USB2_DN1
	19	NC	20	USB2_DP1

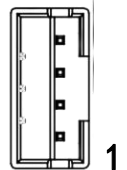
## 12) DEBUG CON1

Graphic	PIN	Define	PIN	Define
	1	V3.3S	2	PLTRST_C
	3	ESPICK	4	ESPI0
	5	ESPI_CS	6	ESPI1
	7	ESPI3	8	ESPI2
	9	GND	10	NC

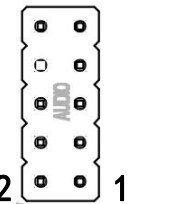
## 13) USB 2.0

Graphic	PIN	Define	PIN	Define
	1	+V5P0A_USB_P3	2	+V5P0A_USB_P3
	3	USB2_HEADER1_DN	4	USB2_HEADER2_DN
	5	USB2_HEADER1_DP	6	USB2_HEADER2_DP
	7	GND	8	GND
	9	NC	10	GND

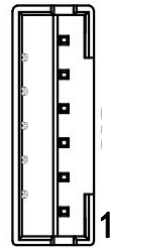
## 14) SPEAKER

Graphic	PIN	Define
	1	SPKR_RN_CON
	2	SPKR_RP_CON
	3	SPKR_LN_CON
	4	SPKR_LP_CON

## 15) F\_AUDIO1

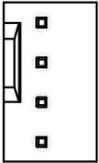
Graphic	PIN	Define	PIN	Define
	1	MIC2_L	2	GND_AUD
	3	MIC3_R	4	+3.3VD
	5	LINE2-R	6	MIC2_JD
	7	GND_AUD	8	NC
	9	LINE2-L	10	LINE2-JD

## 16) PS/2


Graphic	PIN	Define
	1	KB_CLK
	2	KB_DATA
	3	MS_CLK
	4	GND
	5	PS2_VCC
	6	MS_DAT



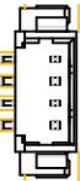
### 17) SYS\_FAN

Graphic	PIN	Define
	1	GND
	2	+V12S
	3	FAN3_TACH
	4	FAN3_PWM


### 18) SMB

Graphic	PIN	Define
	1	+5V_3V_SMBUS
	2	SMB_CLK
	3	SMB_DATA
	4	GND

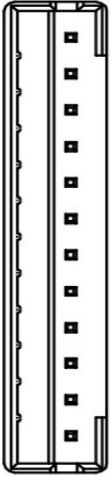
### 19) CPU FAN

Graphic	PIN	Define
	1	GND
	2	+V5S
	3	FAN1_TACH
	4	FAN1_PWM

### 20) DRAWER

Graphic	PIN	Define
	1	GND
	2	DRAWER_DET
	3	DRAWER_CTL
	4	VCC_DRAWER

### 21) VGA2

Graphic	PIN	Define
	1	GND
	2	VSOUT
	3	HSOUT
	4	GND
	5	VGA_R+
	6	GND
	7	VGA_G+
	8	GND
	9	VGA_B+
	10	GND
	11	VGA_DDCSDA
	12	VGA_DDCSCL