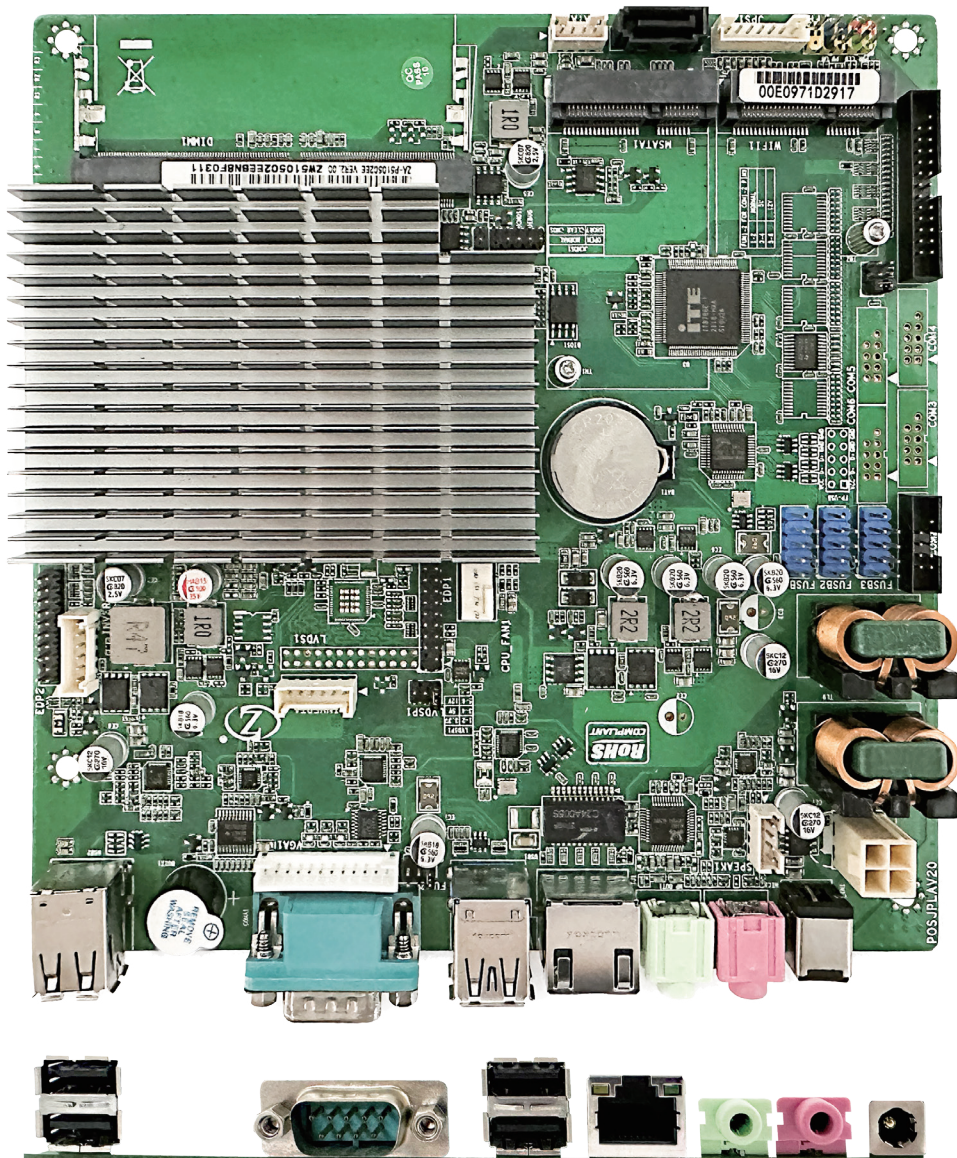


POSJPLAV20 Mainboard

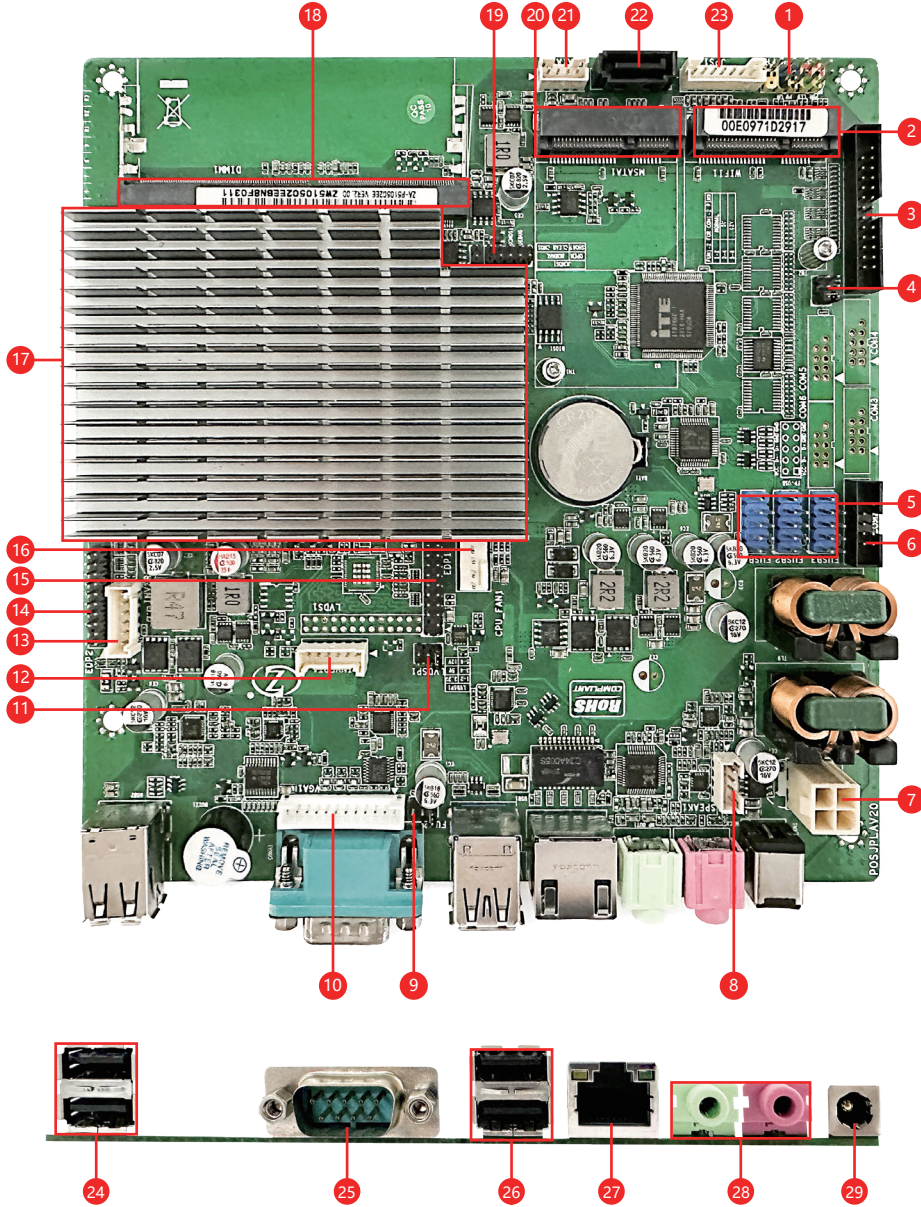
Product characteristics:

- Intel® Celeron® N5105 CPU
- Support 10*USB
(4*USB2.0 interface/6*USB2.0 Pin)
- Support 2*EDP/1*VGA/1*LVDSP
Displays the output



POSJPLAV20 Motherboard Specifications

Size	170mm*170mm
CPU	Intel® Celeron® N5105 CPU
RAM	DDR4L 2933MHz Slot
BIOS	AMIBIOS 64Mbit Flash
Internal I/O	1*Front panel Pin 1*Mini pcie Slot (WIFI) 1*LPT Pin 2*COM FUN Jumper 6*USB Pin 1*COM Pin 1*2x2Pin power outlet 1*LVDS Pin 1*VGA Pin 2*Inverter Pin 2*EDP Pin 1*CPU_FAN Pin 1*Heat Sink 1*DDR4 Slot 1*JCMOS Pin 1*Mini pcie Slot (MSATA) 1*JSATA Power supply interface 1*SATA Data interface 1*PS/2 Pin
Rear I/O	4*USB interface 1*COM interface 1*LAN interface 1*AUDIO interface (1*LINE OUT、1*MIC) 1*DC 12V interface
LAN	1* Realtek 8106; 100M/10M Ethernet Controller
Expansion slot	1*Mini pcie Slot (WIFI) / 1*Mini pcie Slot (MSATA)
Operating System	Windows10, Linux



1	Front panel Pin
2	Mini pcie Slot (WIFI)
3	LPT Pin
4	COM FUN Jumper
5	FUSB Pin
6	COM Pin
7	2x2Pin power outlet
8	SPEAK Pin
9	COM FUN Jumper
10	VGA Pin
11	LVDSP Jumper
12	Inverter1 Pin
13	Inverter2 Pin
14	EDP2 Pin
15	EDP1 Pin
16	CPU_FAN Pin
17	Heat Sink
18	DDR4 Slot
19	JCMOS Pin
20	Mini pcie Slot (MSATA)
21	JSATA Power Supply Interface
22	SATA Data interface
23	PS/2 Pin

24	USB2.0 interface	27	LAN interface
25	COM interface	28	AUDIO interface (1*LINE OUT、1*MIC)
26	USB2.0 interface	29	DC 12V interface

POSJPLAV20 Mainboard Definition

(1) Front panel Pin

Location	Pin	Definition	Pin	Definition
FP1 (2.54mm)	1	3.3V	2	Power LED
	3	Hard Disk Drive LED	4	GND
	5	Reset Switch	6	Power Switch
	7	GND	8	GND
	9	NC		

(3) LPT Pin

Location	Pin	Definition	Pin	Definition
LPT (2mm)	1	P_STB_R	2	P_AFD_R
	3	P_PD0_R	4	ERR-
	5	P_PD1_R	6	P_INIT_R
	7	P_PD2_R	8	P_SLIN_R
	9	P_PD3_R	10	GND
	11	P_PD4_R	12	GND
	13	P_PD5_R	14	GND
	15	P_PD6_R	16	GND
	17	P_PD7_R	18	GND
	19	ACK-	20	GND
	21	BUSY	22	GND
	23	PE	24	GND
	25	SLCT	26	NC

(4/9) COM FUN Pin

Location	Pin	Definition	Pin	Definition	NOTE
COM3_FUN (2mm)	1	RTS3-	2	RTS6-EN	此插针的功能为COM3信号选择 RS232: 跳帽放置位置为(5-7)(6-8)(2-4) RS485: 跳帽放置位置为(1-2)(3-4)(5-6)
	3	SOUT3	4	SOUT6EN	
	5	SIN3	6	RS485_RXD1	
	7	NC	8	NC	

Location	Pin	Definition
JP485	1	RS485D0
	2	RS485D-0
	3	RS485D1
	4	RS485D-1
	5	GND

Location	Pin	Definition	Pin	Definition	NOTE
COM2_FUN (2mm)	1	RTS2-	2	RTS5-EN	此插针的功能为COM2信号选择 RS232: 跳帽放置位置为(5-7)(6-8)(2-4) RS485: 跳帽放置位置为(1-2)(3-4)(5-6)
	3	SOUT2	4	SOUT5EN	
	5	SIN2	6	RS485_RXD0	
	7	NC	8	NC	

(5) FUSB Pin

Location	Pin	Definition	Pin	Definition
FUSB1 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	USB_PN4	4	USB_PN5
	5	USB_PP4	6	USB_PP5
	7	GND	8	GND
	9	NC	10	GND

Location	Pin	Definition		
FUSB2 (2.54mm)	1	5V_RUN		
	2	FDM7		
	3	FDP7		
	4	GND		

Location	Pin	Definition	Pin	Definition
FUSB3 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	FDM1	4	FDM2
	5	FDP1	6	FDP2
	7	GND	8	GND
	9	NC	10	GND

(11) LVDS1 Jumper

Location	Pin	Definition	Pin	Definition
LVDS1 (2mm)	1	VDDLVD	2	VDDLVD
	3	VDDLVD	4	GND
	5	GND	6	LVDS_DP
	7	LVDS_DATA_0N	8	LVDS_DATA_0P
	9	LVDS_DATA_1N	10	LVDS_DATA_1P
	11	LVDS_DATA_2N	12	LVDS_DATA_2P
	13	GND	14	GND
	15	LVDS_CLKN	16	LVDS_CLKP
	17	LVDS_DATA_3N	18	LVDS_DATA_3P
	19	LVDS1_DATA_0N	20	LVDS1_DATA_0P
	21	LVDS1_DATA_1N	22	LVDS1_DATA_1P
	23	LVDS1_DATA_2N	24	LVDS1_DATA_2P
	25	GND	26	GND
	27	LVDS1_CLKN	28	LVDS1_CLKP
	29	LVDS1_DATA_3N	30	LVDS1_DATA_3P

Location	Pin	Definition
INVERT_LVDS1	1	GND
	2	GND
	3	BL_ADJ
	4	BKLT-EN
	5	+12V
	6	+12V

Location	Pin	Definition	Pin	Definition
LVDS1 (2mm)	1	3.3V_RUN	2	LVDS1_POWER
	3	5V_RUN	4	LVDS1_POWER
	5	12V_RUN	6	LVDS1_POWER

NOTE

此插针的功能为LVDS1供电选择

1. 请务必注意所使用的LVDS屏幕的电压。如果接入电压高于屏幕所允许的电压，可能会导致屏幕损坏。在连接屏幕之前，请确保电压匹配，以免造成不必要的损失。

2. 跳帽默认放置于（1-2），即3.3V电压

(14/15) EDP Pin

Location	Pin	Definition	Pin	Definition
EDP1 (2mm)	1	EDP_VDD	2	EDP_VDD
	3	NC	4	
	5	GND	6	HPDET_EDP1
	7	EDP0N	8	EDP0P
	9	EDP1N	10	EDP1P
	11	NC	12	NC
	13	GND	14	LVDS_DP
	15	EAUXN	16	EAUXP
	17	NC	18	NC
	19	NC	20	NC

Location	Pin	Definition
INVERT_EDP_1	1	GND
	2	GND
	3	BL_ADJ
	4	BKLT-EN
	5	+12V
	6	+12V

Location	Pin	Definition	Pin	Definition
EDP2 (2mm)	1	EDP_VDD	2	EDP_VDD
	3	NC	4	
	5	GND	6	HPDET_EDP1
	7	EDP0N	8	EDP0P
	9	EDP1N	10	EDP1P
	11	NC	12	NC
	13	GND	14	LVDS_DP
	15	EAUXN	16	EAUXP
	17	NC	18	NC
	19	NC	20	NC

Location	Pin	Definition
INVERT_EDP_1	1	GND
	2	GND
	3	BL_ADJ
	4	BKLT-EN
	5	+12V
	6	+12V

(19) JCMOS1 Pin

Location	Pin	Definition
JCMOS1 (2.54mm)	1	GND
	2	RTCRST_N

(16) CPU_FAN Pin

Location	Pin	Definition
CPU_FAN1	1	GND
	2	+12V
	3	FAN_TAC
	4	FAN_CTL