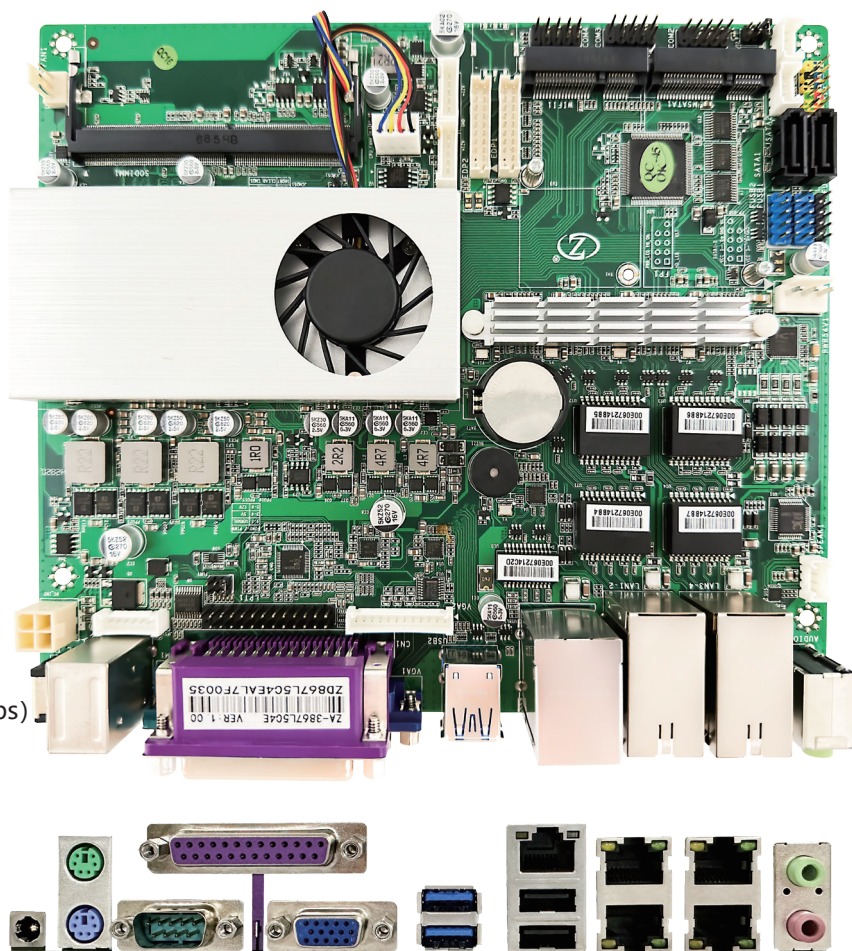


POSKBRV20 Motherboard

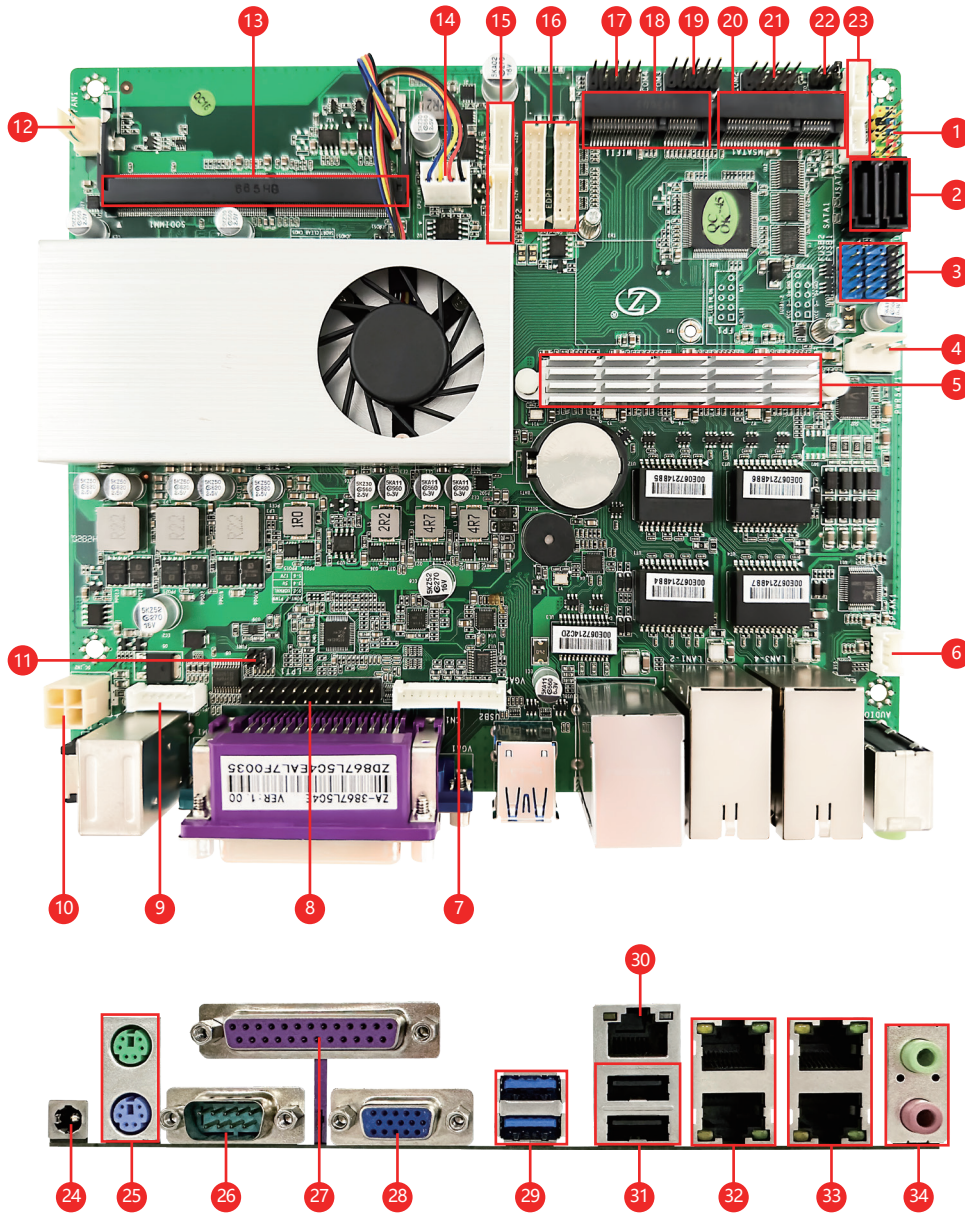
Product characteristics:

- Intel® Celeron® CPU 3867U
- Support 9*USB
(2*USB3.0 interface/2*USB2.0 interface/5*USB2.0 Pin)
- Support 2*EDP/2*VGA Displays the output
- Support 5*LAN interface
(1*Realtek 8111H, 10M/100M/1000M)
(4*Intel Ethernet Controller I211; 1GbE/100Mbps/10Mbps)



POSKBRV20 Motherboard Specifications

Size	200mm*170mm
CPU	Intel® Celeron® J6412 CPU
RAM	DDR4-2133 32G
BIOS	AMIBIOS 64Mbit Flash
Internal I/O	1*Front panel Pin 2*SATA Data interface 5*FUSB Pin 1*PWR54V1 Pin 1*Heat Sink 1*SPEAKPin 1*VGA Jumper 1*LPT Pin 1*PS/2 Pin 1*2X2Pin power outlet 1*SYS_FAN Pin 1*DDR4 Slot 1*CPU_FAN Pin 2*INVERT Pin 2*EDP Pin 1*Mini pcie Slot (WIFI) 1*Mini pcie Slot (MSATA) 6*COM Pin 2*COM FUN Jumper 2*JSATA Power supply interface
Rear I/O	1*DC 12V interface 1*PS/2 interface 1*COM interface 1*LPT interface 1*VGA interface 2*USB3.0 interface 5*LAN interface 2*USB2.0 interface 1*AUDIO interface (1*LINE OUT、1*MIC)
LAN	1*Realtek 8111H,10M/100M/1000M Ethernet Controller 4*Intel Ethernet Controller I211; 1GbE/100Mbps/10Mbps
Expansion slot	1*Mini pcie Slot (WIFI) / 1*Mini pcie Slot (MSATA)
Operating System	Windows10/11, Linux



1	Front panel Pin
2	SATA Data interface
3	FUSB Pin
4	PWR54V1 Pin
5	Heat Sink
6	SPEAK Pin
7	VGA Jumper
8	LPT Pin
9	PS/2 Pin
10	2X2Pin power outlet
11	COM FUN Jumper
12	SYS_FAN Pin
13	DDR4 Slot
14	CPU_FAN Pin
15	INVERT Pin
16	EDP Pin
17	COM4 Pin
18	Mini pcie Slot (WIFI)
19	COM3 Pin
20	Mini pcie Slot (MSATA)
21	COM2 Pin
22	COM FUN Jumper
23	JSATA Power supply interface

24	DC 12V interface	30	LAN interface
25	PS/2 interface	31	USB2.0 interface
26	COM interface	32	LAN interface
27	LPT interface	33	LAN interface
28	VGA interface	34	AUDIO interface (1*LINE OUT、1*MIC)
29	USB3.0 interface		

POSKBRV20 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) 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

(6) SPEAK Pin

Location	Pin	Definition
SPEAKT	1	SPKOUT_L-
	2	SPKOUT_L+
	3	SPKOUT_R-
	4	SPKOUT_R+

(8/26) LPT Pin / interface

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

(11/21) COM FUN Jumper

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	

(12) SYS_FAN Pin

Location	Pin	Definition
SYS_FAN	1	GND
	2	+12V
	3	FAN_TAC22
	4	FAN_CTL22

(14) CPU_FAN Pin

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

(16) 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	GND
	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	GND
	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

(17/19/21) COM Pin

Location	Pin	Definition	Pin	Definition
COM1 (2.54mm)	1	NDCDA	2	NSINA
	3	NSOUTA	4	NDTRA
	5	GND	6	NDSRA
	7	NRTSA	8	NCTSA
	9	NRIA		

Location	Pin	Definition	Pin	Definition
COM2 (2.54mm)	1	2DCD	2	2SIN
	3	2SOUT	4	2DTR
	5	GND	6	2DSR
	7	2RTS	8	2CTS
	9	2RI		

Location	Pin	Definition	Pin	Definition
COM36 (2mm)	1	3DCD	2	3SIN
	3	3SOUT	4	3DTR
	5	GND	6	3DSR
	7	3RTS	8	3CTS
	9	3RI	10	NC
	11	4DCD	12	4SIN
	13	4SOUT	14	4DTR
	15	GND	16	4DSR
	17	4RTS	18	4CTS
	19	4RI	20	NC
	21	5DCD	22	5SIN
	23	5SOUT	24	5DTR
	25	GND	26	5DSR
	27	5RTS	28	5CTS
	29	5RI	30	NC
	31	6DCD	32	6SIN
	33	6SOUT	34	6DTR
	35	GND	36	6DSR
	37	6RTS	38	6CTS
39	6RI	40	NC	