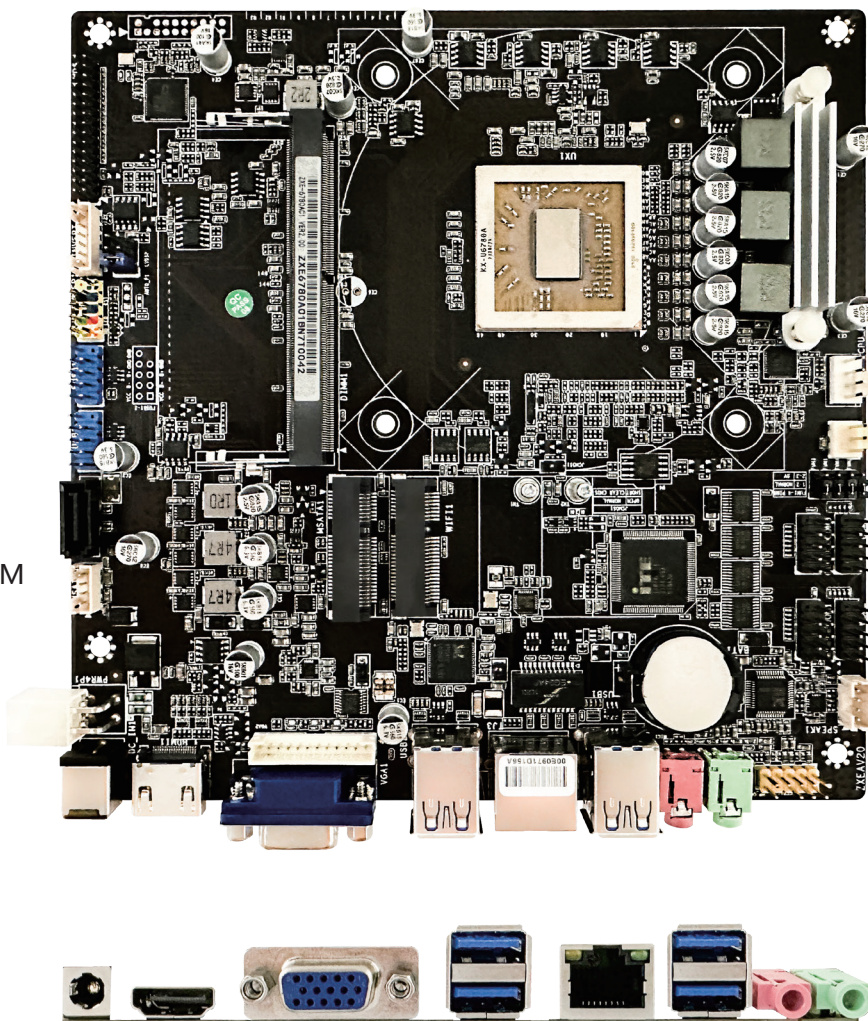


ZXEAV20 Motherboard

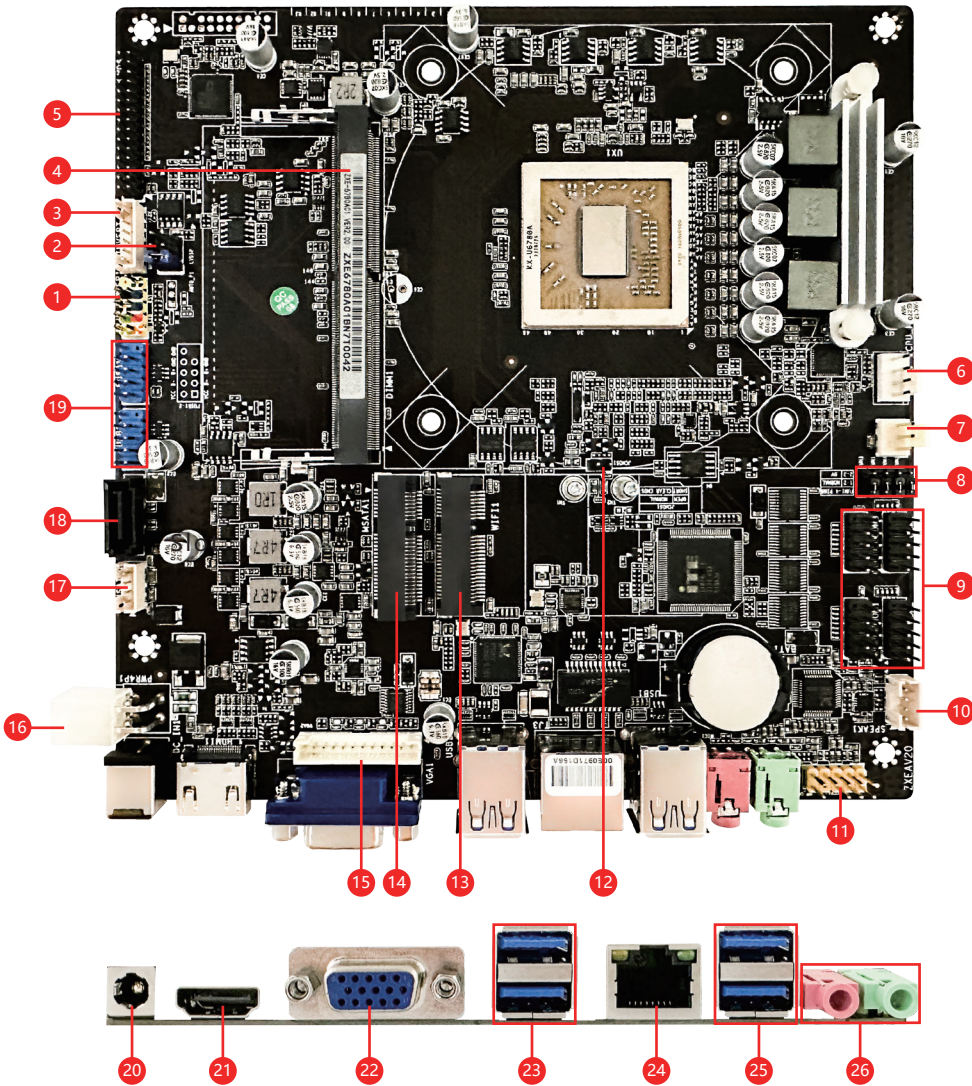
Product characteristics:

- First® KX-6000 CPU
- Support 8*USB (4*USB2.0 Pin/ 4*USB3.0 interface)
- Support 1*LAN (Realtek 8111; 10M/100M /1000M Ethernet Controller)



ZXEAV20 Motherboard Specifications

Size	170mm*170mm
CPU	First®KX-6000 CPU
RAM	DDR4-2666MHz 64GB
BIOS	BaiAo 64Mbit Flash
Internal I/O	1*Front panel Pin 1*LVDSP Jumper 1*INVERT Pin 1*DDR4 Slot 1*LVDS Pin 1*CPU_FAN Pin 1*SYS_FAN Pin 4*COM_FUN Jumper 4*COM Pin 1*SPEAK Pin 1*CFPA Pin 1*JCMOS Pin 1*MINI PCIE(WIFI) Slot 1*MINI PCIE(MSATA) Slot 1*VGA Pin 1*4Pin power outlet 1*JSATA Power supply interface 1*SATA Data interface 2*FUSB Pin
Rear I/O	1*DC 12V interface 1*HDMI interface 1*VGA interface 4*USB3.0 interface 1*LAN interface 1*AUDIO interface (1*MIC、1*LINE OUT)
LAN	1*Realtek 8111; 10M/100M/1000M Ethernet Controller
Expansion slot	1*MINI PCIE(WIFI) Slot / 1*MINI PCIE(MSATA) Slot
Operating System	Windows7/10, Linux



1	Front panel Pin
2	LVDSP Jumper
3	INVERT Pin
4	DDR4 Slot
5	LVDS Pin
6	CPU_FAN Pin
7	SYS_FAN Pin
8	COM_FUN Jumper
9	COM Pin
10	SPEAK Pin
11	CFPA Pin
12	JCMOS Pin
13	MINI PCIE(WIFI) Slot
14	MINI PCIE(MSATA) Slot
15	VGA Pin
16	4Pin power outlet
17	JSATA Power supply interface
18	SATA Data interface
19	FUSB Pin

20	DC 12V interface	24	LAN interface
21	HDMI interface	25	USB3.0 interface
22	VGA interface	26	AUDIO interface (1*MIC、1*LINE OUT)
23	USB3.0 interface		

ZXEAV20 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		

(5) LVDS Pin

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

(6) CPU_FAN Pin

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

(7) SYS_FAN Pin

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

(9) 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		

(10) SPEAKT Pin

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

(11) CFPA Pin

Location	Pin	Definition	Pin	Definition
CFPA1 (2.54mm)	1	P_STB_R	2	AUD_AGND
	3	P_PD0_R	4	NC
	5	P_PD1_R	6	MIC2-JD
	7	P_PD2_R	8	NC
	9	P_PD3_R	10	LINE2-JD

(12) JCMOS Pin

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

(19) FUSB1/2 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		