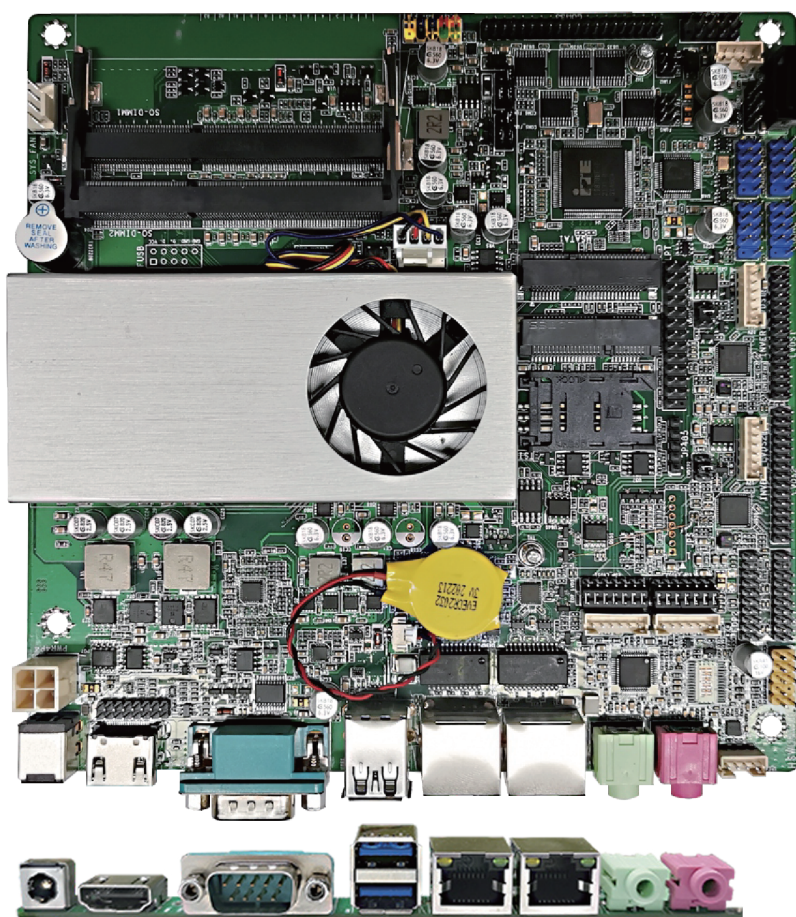


ZA-HSWUNV10主板

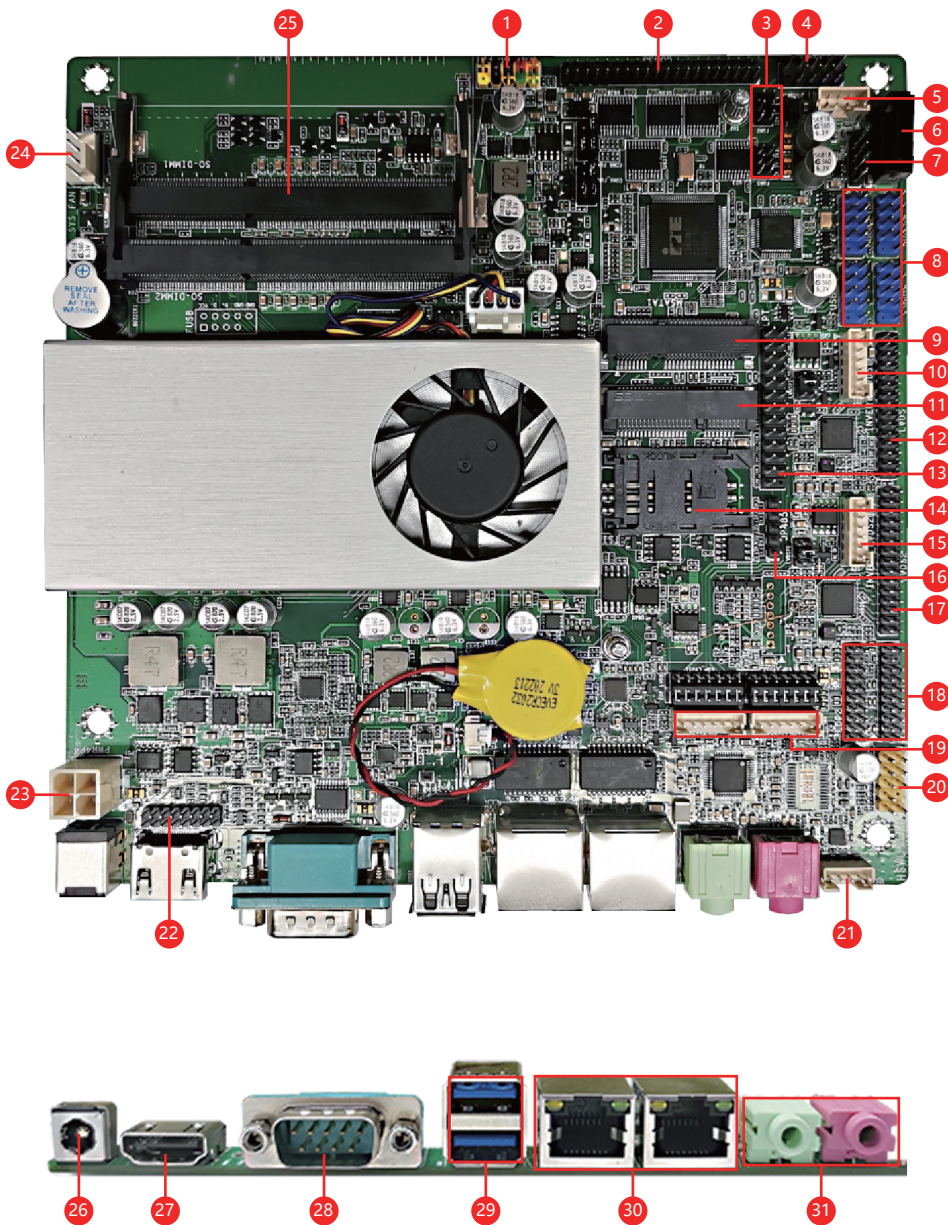
产品特性:

- 英特尔® 四代/五代 Corei7/Corei5/Corei3处理器
- 支持2*EDP/2*LVDS/1*HDMI输出显示
- 支持11个USB (2*USB3.0接口/9*USB2.0排针)
- 支持2个LAN接口 (Realtek 8111H,10M/100M/1000M以太网控制器)



ZA-HSWUNV10主板规格

板型尺寸	170mm*170mm
处理器	英特尔® 四代/五代 Corei7/Corei5/Corei3处理器
芯片组	4005U/4200U/4500U/5005U/5200U/5500U等
内存	2*DDR3 1333/1600MHZ 204PIN SODIMM 插槽
BIOS	AMIBIOS 64Mbit 闪存
内置I/O接口	1*Front panel排针 1*1拖4串口排针(COM5-COM6支持R485) 2*COM FUN跳线 1*COM口排针 1*JSATA供电接口 1*SATA数据接口 9*USB2.0排针 2*INVERT_LVDS排针 2*LVDS排针(可选2*EDP排针) 1*LPT排针 1*TISM卡槽 1*JP485排针 2*EDP排针 2*INVERT_EDP排针 1*音频输出排针 1*喇叭排针接口(2.8W/CH) 1*HDMI排针 1*2x2Pin电源接口 1*CPU_FAN排针 2*DDR3 插槽
外置I/O接口	1*DC 12V接口 1*HDMI接口 1*COM口 2*USB3.0接口 2*LAN接口 1*AUDIO接口 (1*LINE OUT、1*MIC)
集成网卡	2*Realtek 8111H,10M/100M/1000M以太网控制器
扩展槽/口	2*Mini pcie 插槽(MSATA)/(WIFI) 1*SATA接口 1*TISM接口卡槽
操作系统	Windows7/10, Linux



1	Front panel排针
2	1拖4串口排针(COM5-COM6支持R485)
3	COM FUN跳线
4	COM口排针
5	JSATA供电接口
6	SATA数据接口
7	USB2.0排针
8	USB2.0排针
9	Mini pcie插槽 (MSATA)
10	INVERT_LVDS排针
11	Mini pcie插槽 (WIFI)
12	LVDS排针(可选2*EDP排针)
13	LPT排针
14	TISM卡槽
15	INVERT_LVDS排针
16	JP485排针
17	LVDS排针(可选2*EDP排针)
18	EDP排针
19	INVERT_EDP排针
20	音频输出排针
21	喇叭排针接口(2.8W/CH)
22	HDMI排针
23	2x2Pin电源接口
24	CPU_FAN排针
25	DDR3 插槽

26	DC 12V接口	29	USB3.0接口
27	HDMI接口	30	LAN接口
28	COM口	31	AUDIO接口 (1*LINE OUT、1*MIC)

ZA-HSWUNV10主板定义

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		

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	

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	NOTE
FUN5 (2mm)	1	5RI	2	5RI-	此插针的功能为COM36供电选择,默认为不供电即跳帽置(1-2)
	3	5RI	4	5V_RUN	
	5	5RI	6	12V_RUN	

Location	Pin	Definition	Pin	Definition
GPIO (2mm)	1	GP23_IO	2	3V_RUN
	3	GP30_IO	4	5V_RUN
	5	GND	6	12V_RUN

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	

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

Location	Pin	Definition	Pin	Definition
FUSB4 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	FDM3	4	FDM4
	5	FDP3	6	FDP4
	7	GND	8	GND
	9	NC	10	GND

Location	Pin	Definition	Pin	Definition
FUSB5 (2.54mm)	1	5V_RUN	2	5V_RUN
	3	FDM5	4	FDM6
	5	FDP5	6	FDP6
	7	GND	8	GND
	9	NC	10	GND

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LVDS1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				

Location	Pin	Definition	Pin	Definition
LVDS2 (2mm)	1	VDDLVD5	2	VDDLVD5
	3	VDDLVD5	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_LVDS2	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

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

Location	Pin	Definition	Pin	Definition	Pin	Definition	NOTE
EDP_LVDS1 (2mm)	1	EDP_CONN_AUXN	2	EDP_AUXN	2	EDP_LVDS_AUXN	此插针用于在LVDS1和eDP1信号之间进行选择。若需要使用eDP信号, 请将跳帽置于左侧, 即 (1-2) 区域。相反, 若需要使用LVDS信号, 请将跳帽置于右侧, 即 (2-3) 区域。
	4	EDP_CONN_AUXP	5	EDP_AUXP	5	EDP_LVDS_AUXP	
	7	EDP_CONN_TXP0	8	EDP_TXP0	8	EDP_LVDS_TXP0	
	10	EDP_CONN_TXN0	11	EDP_TXN0	11	EDP_LVDS_TXN0	
	13	EDP_CONN_TXP1	14	EDP_TXP1	14	EDP_LVDS_TXP1	
	16	EDP_CONN_TXN1	17	EDP_TXN1	17	EDP_LVDS_TXN1	
	19	EDP_CONN_HPD	20	EDP_HPD	20	EDP_LVDS_HPD	

Location	Pin	Definition	Pin	Definition	Pin	Definition	NOTE
EDP_LVDS2 (2mm)	1	EDP_CONN_AUXN	2	EDP_AUXN	2	EDP_LVDS_AUXN	此插针用于在LVDS1和eDP1信号之间进行选择。若需要使用eDP信号, 请将跳帽置于左侧, 即 (1-2) 区域。相反, 若需要使用LVDS信号, 请将跳帽置于右侧, 即 (2-3) 区域。
	4	EDP_CONN_AUXP	5	EDP_AUXP	5	EDP_LVDS_AUXP	
	7	EDP_CONN_TXP0	8	EDP_TXP0	8	EDP_LVDS_TXP0	
	10	EDP_CONN_TXN0	11	EDP_TXN0	11	EDP_LVDS_TXN0	
	13	EDP_CONN_TXP1	14	EDP_TXP1	14	EDP_LVDS_TXP1	
	16	EDP_CONN_TXN1	17	EDP_TXN1	17	EDP_LVDS_TXN1	
	19	EDP_CONN_HPD	20	EDP_HPD	20	EDP_LVDS_HPD	

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

Location	Pin	Definition	Pin	Definition
HDMI2 (2mm)	1	DDI1_TXP0	2	HDMIC_SCL
	3	DDI1_TXN0	4	HDMIC_SDA
	5	DDI1_TXP1	6	NC
	7	DDI1_TXN1	8	HDMIC_HPD_SINK
	9	DDI1_TXP2	10	DDC_5V
	11	DDI1_TXN2	12	GND
	13	DDI1_TXP3	14	GND
	15	DDI1_TXN3	16	GND

Location	Pin	Definition	Pin	Definition
PWR4P4	1	GND	2	GND
	3	12V_STBY	4	12V_STBY

Location	Pin	Definition	Pin	Definition
FPA1 (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

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

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

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

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