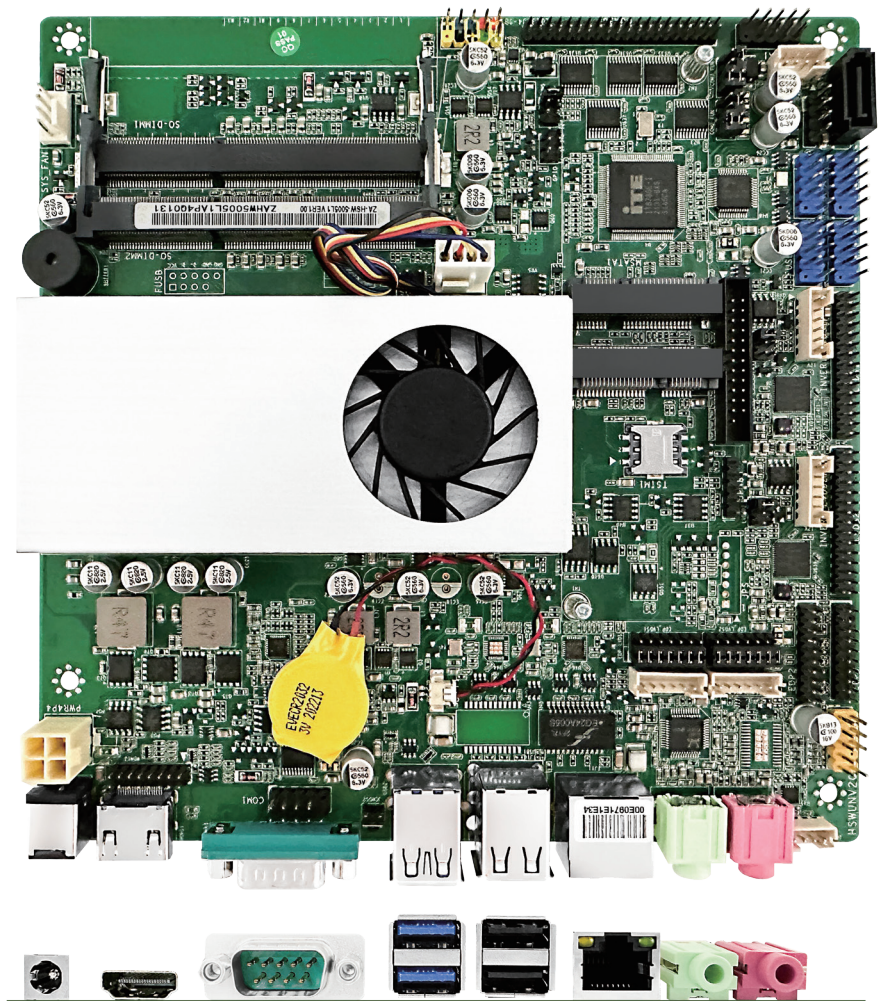


ZA-HW5005L1 Mainboard

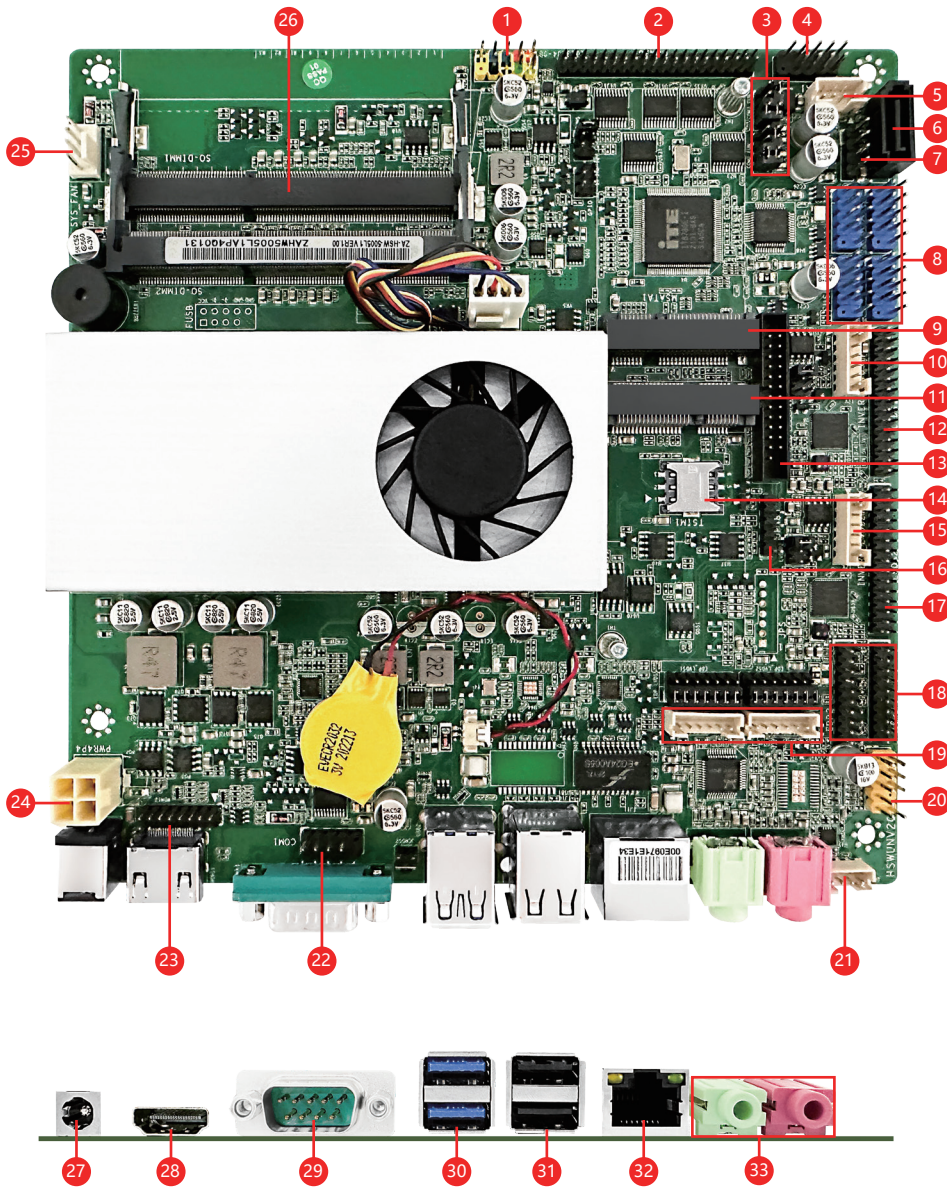
Product characteristics:

- Intel® Core™ i3-5005U CPU
- Support 2*EDP/2*LVDS/1*HDMI Displays the output
- Support 13*USB (2*USB3.0 interface/ 2*USB2.0 interface/9*USB2.0 Pin)



ZA-HW5005L1 Motherboard Specifications

Size	170mm*170mm
CPU	Intel® Core™ i3-5005U CPU
RAM	Support 2*DDR3 1333/1600Mhz, Maximum support 16GB
BIOS	AMIBIOS 64Mbit Flash
Internal I/O	1*Front panel Pin 1*COM36 Pin 2*COM FUN Jumper 2*COM Pin 1*JSATA Power supply interface 1*SATA Data interface 5*FUSB2.0 Pin(Support 9*USB2.0 interface) 2*INVERT_LVDS Pin 2*LVDS Pin(optional 2*EDP Pin) 1*LPT Pin 1*TISM card slot 1*JP485 Pin 2*EDP Pin 2*INVERT_EDP Pin 1*AUDIO Pin 1*SPK Pin(2.8W/CH) 1*HDMI Pin 1*4Pin Power outlet 1*CPU_FAN Pin
Rear I/O	1*DC 12V interface 1*HDMI interface 1*COM interface 2*USB3.0 interface 2*USB2.0 interface 1*LAN interface(optional 1*LAN interface) 2*AUDIO interface (1*LINE OUT、1*MIC)
LAN	1*Realtek 8111H,1Gbps/100Mbps/10Mbps Ethernet Controller
Expansion slot	1*Mini pcie slot(MSATA) / 1*Mini pcie slot(WIFI)
Operating System	Windows7/10, Linux



1	Front panel Pin
2	COM36 Pin
3	COM FUN Jumper
4	COM Pin
5	JSATA Power supply interface
6	SATA Data interface
7	FUSB2 Pin
8	FUSB1/3/4/5 Pin
9	Mini pcie slot (MSATA)
10	INVERT_LVDS Pin
11	Mini pcie slot (WIFI)
12	LVDS Pin(optional 2*EDP Pin)
13	LPT Pin
14	TISM card slot
15	INVERT_LVDS Pin
16	JP485 Pin
17	LVDS Pin
18	EDP Pin
19	INVERT_EDP Pin

20	AUDIO Pin	27	DC 12V interface
21	SPK Pin(2.8W/CH)	28	HDMI interface
22	COM Pin	29	COM interface
23	HDMI Pin	30	USB3.0 interface
24	4Pin Power outlet	31	USB2.0 interface
25	CPU_FAN Pin	32	LAN interface
26	DDR3 slot	33	AUDIO interface (1*LINE OUT、1*MIC)

ZA-HW5005L1 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		

(2) COM36 Pin

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	

(3) COM FUN Jumper

Location	Pin	Definition	Pin	Definition
COM2_FUN (2mm)	1	RTS2-	2	RTS5-EN
	3	SOUT2	4	SOUT5EN
	5	SIN2	6	RS485_RXD0
	7	NC	8	NC

Location	Pin	Definition	Pin	Definition
COM3_FUN (2mm)	1	RTS3-	2	RTS6-EN
	3	SOUT3	4	SOUT6EN
	5	SIN3	6	RS485_RXD1
	7	NC	8	NC

(4/22) 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		

(7/8) FUSB1-5 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

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

(10/15) INVERT_LVDS Pin

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

(12/17) LVDS Pin

Location	Pin	Definition	Pin	Definition
LVDS (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

(16) J485 Pin

Location	Pin	Definition
J485	1	COM2_485+
	2	COM2_485-
	3	COM3_485+
	4	COM3_485-
	5	GND

(18) 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

(20) AUDIO Pin

Location	Pin	Definition	Pin	Definition
AUDIO (2.54mm)	1	MIC1_L	2	GND
	3	MIC1_R	4	NC
	5	LINEOUT_R	6	MIC1_JD
	7	GND	8	
	9	LINEOUT_L	10	LINEOUT_JD

(21) SPK Pin

Location	Pin	Definition
SPK1	1	SPKOUT_L-
	2	SPKOUT_L+
	3	SPKOUT_R-
	4	SPKOUT_R+

(23) HDMI Pin

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

(25) CPU_FAN Pin

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