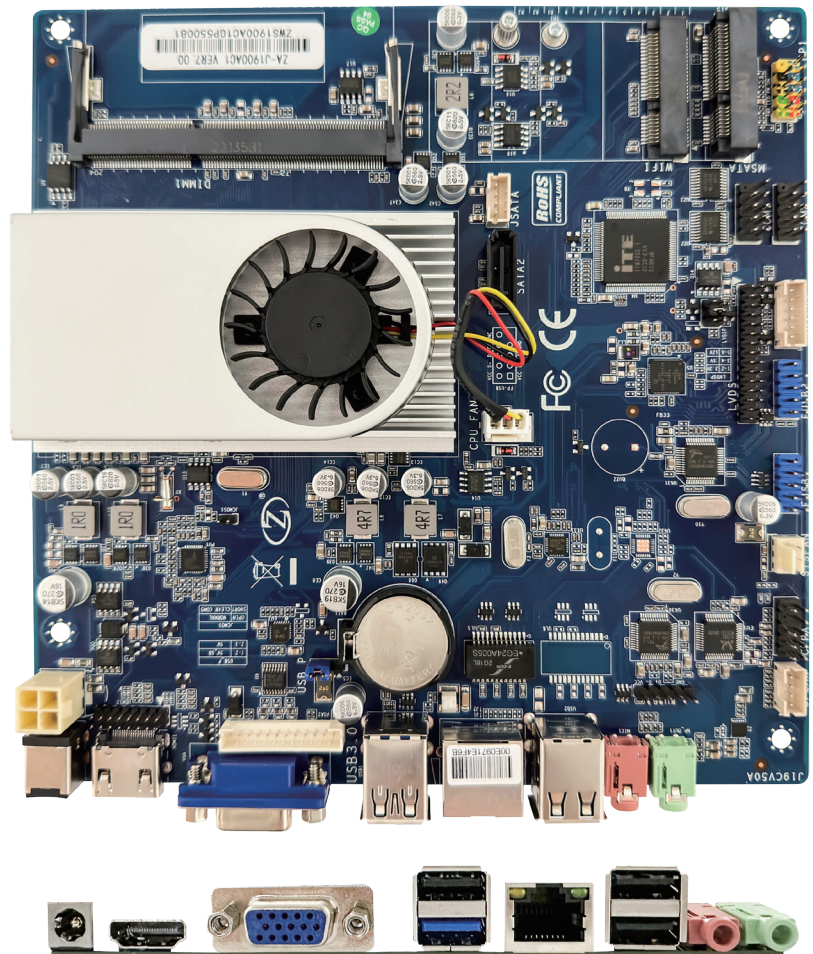


ZA-J1900AC1 Mainboard

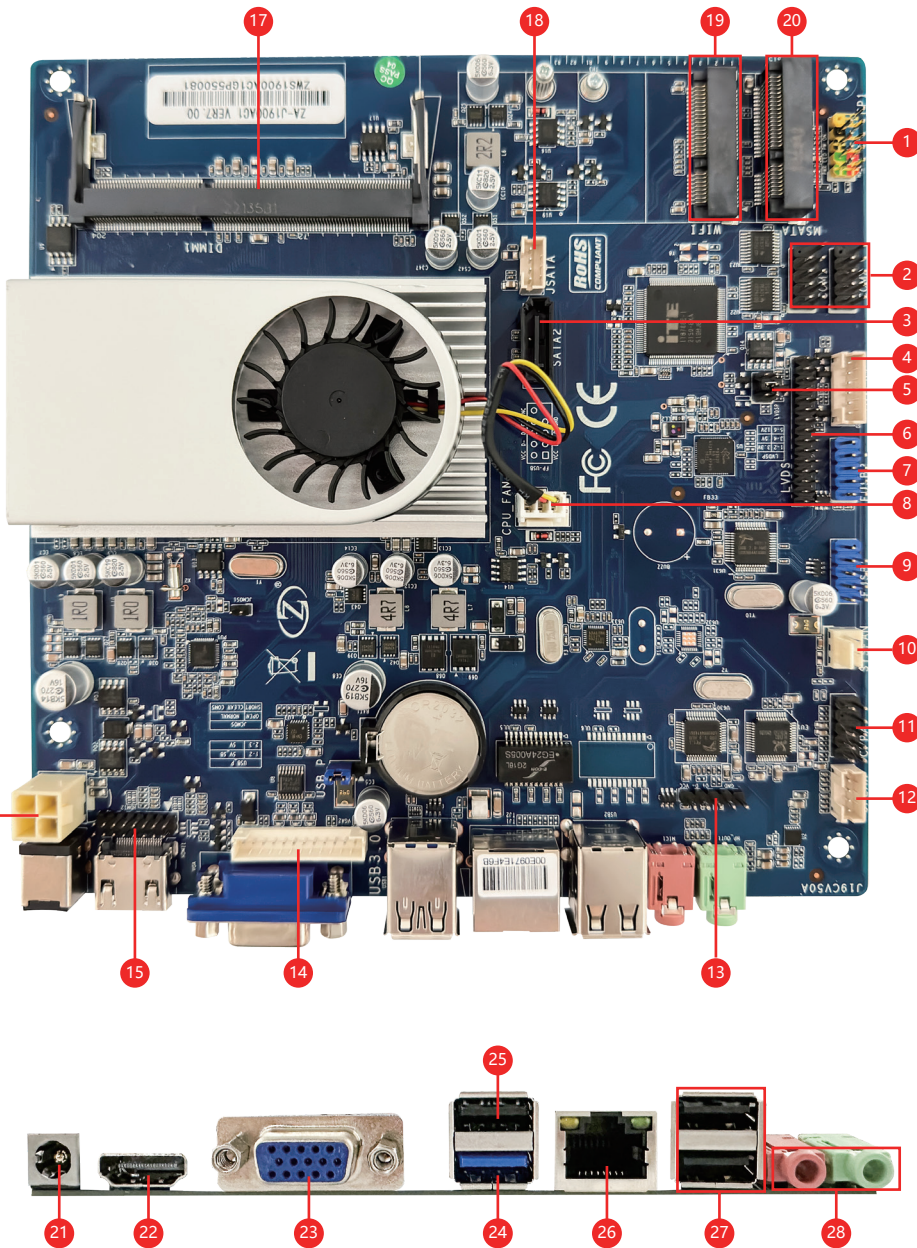
Product characteristics:

- Intel® J1900 Quad-core
(CPU Frequency 2GHz Turbo Boost 2.41GHz)
- Support 2*HDMI/2*VGA/1*LVDS
Displays the output
- Support 9*USB (1*USB3.0 interface/
3*USB2.0 interface/5*USB2.0 Pin)
- Carry Intel HD Graphics Core graphics card



ZA-J1900AC1 Motherboard Specifications

Size	170mm*170mm
CPU	Intel®J1900 Quad-core (CPU Frequency 2GHz Turbo Boost 2.41GHz)
Graphics display	Integration Intel HD Graphics Core graphics card
RAM	DDR3L 1333/1066MHz
BIOS	AMIBIOS 32Mbit Flash
Internal I/O	1*Front panel Pin 2*COM Pin 1*SATA Data interface 1*Inverter Pin 1*LVDS Jumper 1*LVDS Pin 5*USB2.0 Pin 1*CPU_FAN Pin 1*SYS_FAN Pin 1*CFPA Pin 1*SPEAK Pin 1*VGA Pin 1*HDMI Pin 1*4Pin Power connector 1*DDR3 Slot 1*JSATA Power supply interface
Rear I/O	1*DC 12V interface 1*HDMI interface 1*VGA interface 1*USB3.0 interface 1*LAN interface 3*USB2.0 interface 1*AUDIO interface (1*LINE OUT、1*MIC)
LAN	1*Realtek 100M Ethernet Controller
Expansion slot	1*Mini pcie Slot (WIFI) / 1*Mini pcie Slot (MSATA)
Operating System	Windows7/Windows8/Windows10 Linux



1	Front panel Pin
2	COM Pin
3	SATA Data interface
4	Inverter Pin
5	LVDS Jumper
6	LVDS Pin
7	USB2.0 Pin
8	CPU_FAN Pin
9	USB2.0 Pin
10	SYS_FAN Pin
11	CFPA Pin
12	SPEAK Pin
13	USB2.0 Pin
14	VGA Pin
15	HDMI Pin
16	4Pin Power connector
17	DDR3 Slot
18	JSATA Power supply interface
19	Mini pcie Slot (WIFI)
20	Mini pcie Slot (MSATA)

21	DC 12V interface	25	USB2.0 interface
22	HDMI interface	26	LAN interface
23	VGA interface	27	USB2.0 interface
24	USB3.0 interface	28	AUDIO interface (1*LINE OUT、1*MIC)

ZA-J1900AC1 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) COM 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	

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		

(5/6) LDVSP Jumper/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
LVDS1P (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				

(8) CPU_FAN Pin

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

(8) SYS_FAN Pin

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

(11) CFPA Pin

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

(7/9/13) 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

(12) SPEAK Pin

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

(15) 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