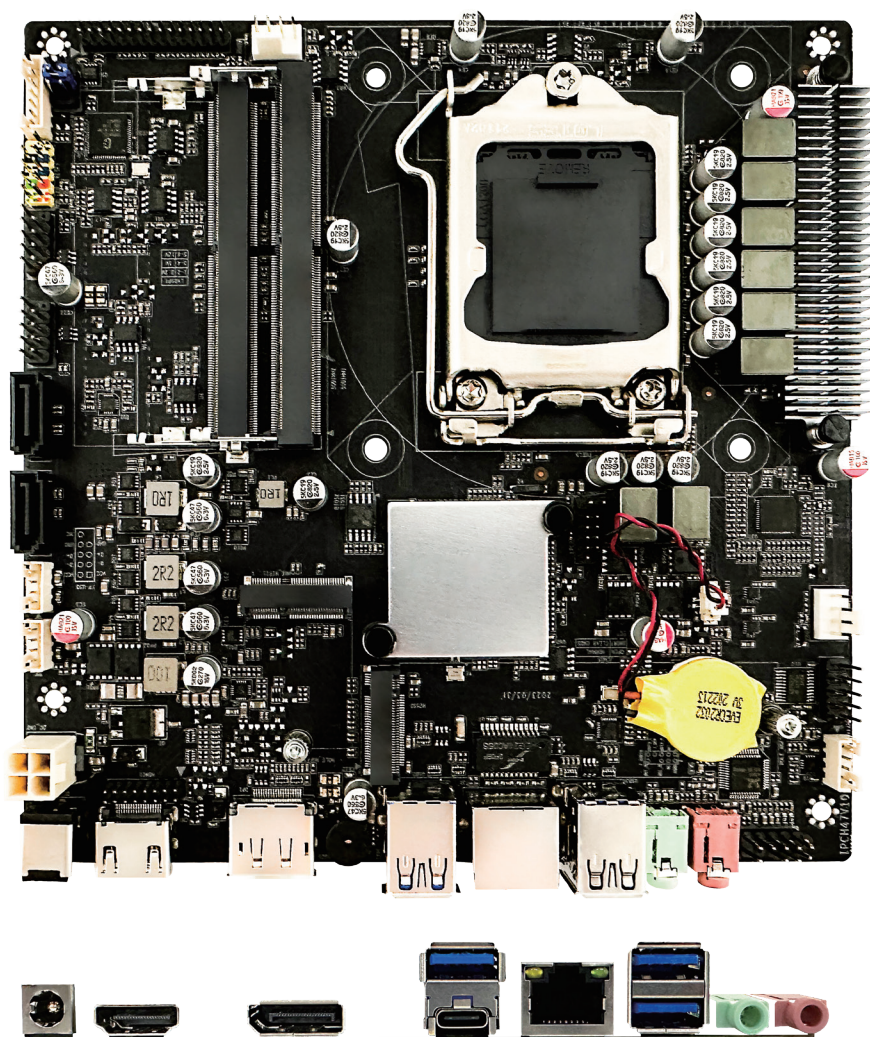


IPCH47V10 Mainboard

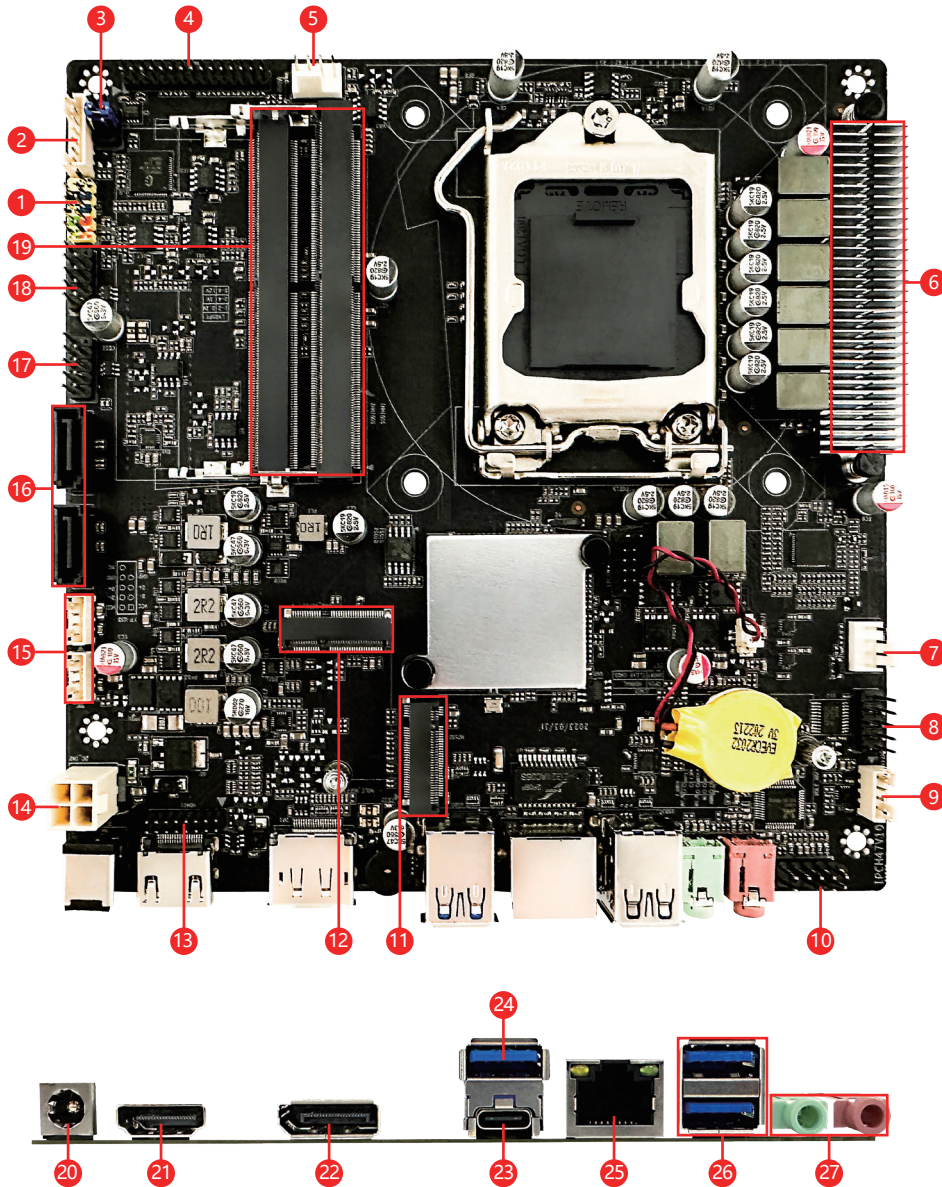
Product characteristics:

- Intel 10th/11th CPU
- Support 8*USB (4*USB3.0 Pin/ 3*USB3.0 interface/1*TYPE-C interface)
- Support 1*LAN interface (Realtek 8111H, 1000M/100M/10M Ethernet Controller)



IPCH47V10 Motherboard Specifications

Size	170MM*170MM
CPU	Intel 10th/11th CPU
RAM	SODIMM DDR4-3200 128G
BIOS	AMIBIOS 128Mbit Flash
Internal I/O	1*Front panel Pin 1*Inverter Pin 1*Screen supply voltage selection jumper 1*LVDS Pin 1*SYS_FAN Pin 1*Heat Sink 1*CPU_FAN Pin 1*COM Pin 1*Speaker Pin Header (2W/CH) 1*Audio Output Pin 1*M.2 SSD Slot (PCIE/SATA) 1*M.2 WIFI Slot (PCIE/USB) 1*HDMI Pin 1*2x2Pin power outlet 1*JSATA Power Supply Interface 1*SATA Interface 2*FUSB2.0 Pin 2*SO-DIMM DDR4 Slot
Rear I/O	1*DC 12/19V Interface 1*HDMI Interface 1*DP Interface 1*TYPE-C Interface 1*LAN Interface 3*USB3.0 Interface 1*AUDIO Interface (1*LINE OUT、1*MIC)
LAN	1*Realtek 8111H,1000M/100M/10M Ethernet Controller
Expansion slot	1*M.2 SSD Slot/1*M.2 WIFI Slot
Operating System	windows 10/windows 11, Linux



1	Front panel Pin
2	Inverter Pin
3	Screen supply voltage selection jumper
4	LVDS Pin
5	SYS_FAN Pin
6	Heat Sink
7	CPU_FAN Pin
8	COM Pin
9	Speaker Pin Header (2W/CH)
10	Audio Output Pin
11	M.2 SSD Slot (PCIE/SATA)
12	M.2 WIFI Slot (PCIE/USB)
13	HDMI Pin
14	2x2Pin power outlet
15	SATA Power Supply Interface
16	SATA Interface
17	FUSB2.0 Pin
18	FUSB2.0 Pin
19	SO-DIMM DDR4 Slot

20	DC 12/19V Interface	24	USB3.0 Interface
21	HDMI Interface	25	LAN Interface
22	DP Interface	26	USB3.0 Interface
23	TYPE-C Interface	27	AUDIO Interface (1*LINE OUT、1*MIC)

IPCH47V10 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		

(4) LVDS Pin

Location	Pin	Definition	Pin	Definition
LVDSP1 (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
LVDSP1 (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

(5) SYS_FAN Pin

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

(7) CPU_FAN Pin

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

(8) 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	NR1A		

(13/21) 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

Location	Pin	Definition	Pin	Definition
HDMI2 (2mm)	1	GND	2	GND
	3	12V_STBY	4	12V_STBY

(17/18) 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		