

B86PRD_V10 Motherboard

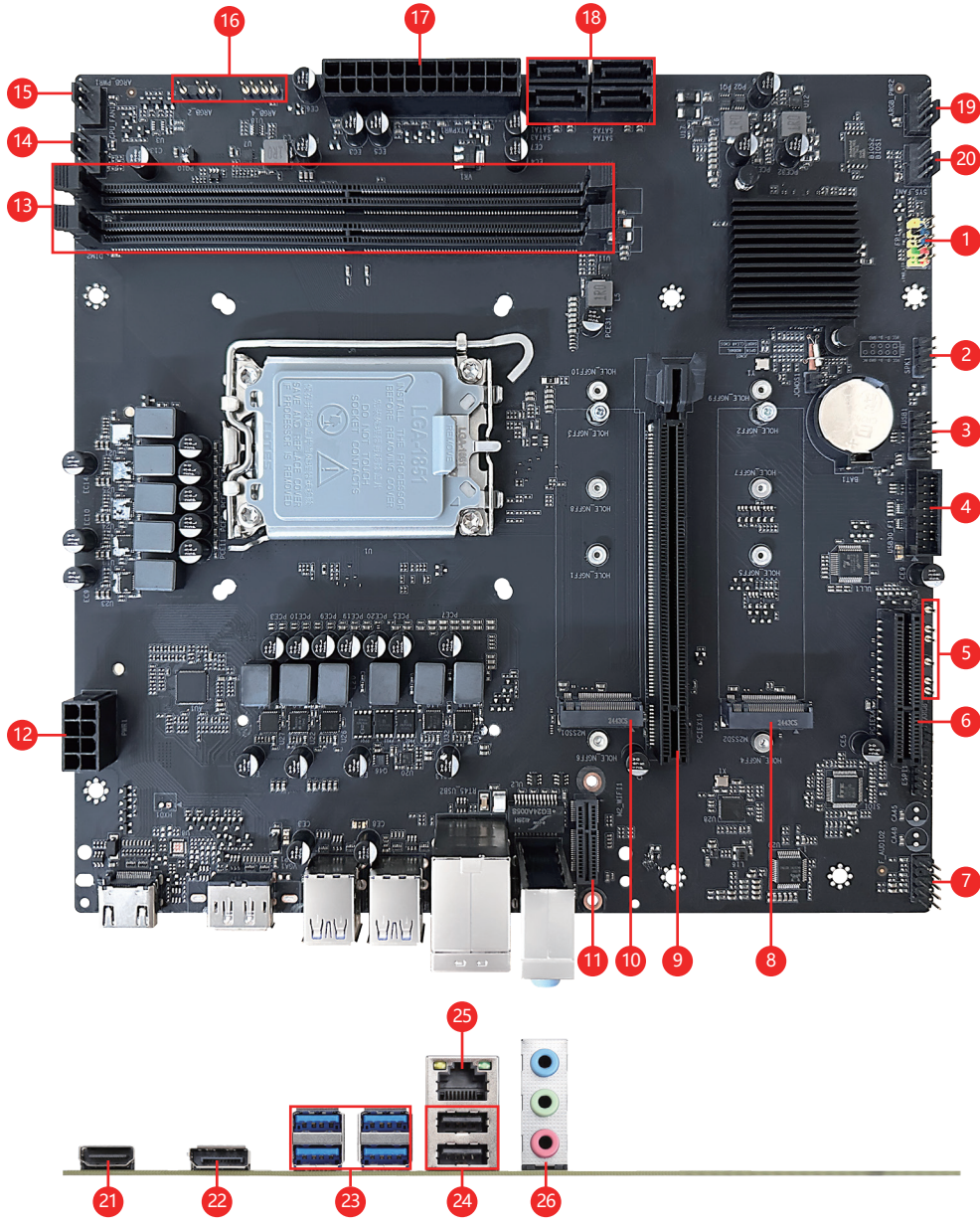
Product characteristics:

- Intel LGA1851 socket:
Intel® Core™ Ultra CPU
- Support 10*USB (4*USB3.0 interface/
2*USB3.0 Pin/2*USB2.0 interface/
2*USB2.0 Pin)
- Support 1*LAN(Realtek 8125 2.5Gbps/1Gbps/
100Mbps/10Mbps Ethernet Controller)



B86PRD_V10 Motherboard Specifications

Size	235mm*225mm
CPU	Intel LGA1851 socket: Intel® Core™ Ultra CPU
RAM	Support 2*DDR5 4800-6400MHz Maximum support 64GB
BIOS	AMIBIOS 256Mbit Flash
Internal I/O	1*Front panel Pin 1*SPK Pin 1*FUSB1 Pin(Support 2*USB2.0 interface) 1*USB30_F1 Pin(Support 2*USB3.0 interface) 4*ARGB1-4 Pin 1*AUDIO Pin 1*4Pin Power outlet 1*CPU_FAN Pin 2*ARGB_PWR1-2 Pin 1*24Pin Power outlet 4*SATA Data interface 1*SYS_FAN Pin
Rear I/O	1*HDMI interface 1*DP interface 4*USB3.0 interface 2*USB2.0 interface 1*LAN interface 3*AUDIO interface(1*LINE IN、1*LINE OUT、1*MIC)
LAN	1*Realtek 8125 2.5Gbps/1Gbps/100Mbps/10Mbps Ethernet Controller
Expansion slot	1*PCIE X4 Slot / 1*PCIE X16 Slot/ 2*M.2 SSD1-2 Slot (Support M.2 PCIE) / 1*M.2 WIFI Slot(PCIE/CNVI)
Operating System	Windows10/11, Linux



1	Front panel Pin
2	SPK Pin
3	FUSB1 Pin
4	USB30_F1 Pin
5	ARGB1/3 Pin
6	PCIE X4 Slot
7	AUDIO Pin
8	M.2 SSD2 Slot
9	PCIE X16 Slot
10	M.2 SSD1 Slot
11	M.2 WIFI Slot
12	4Pin Power outlet
13	DDR5 Slot
14	CPU_FAN Pin
15	ARGB_PWR1 Pin
16	ARGB2/4 Pin
17	24Pin Power outlet
18	SATA Data interface
19	ARGB_PWR2 Pin
20	SYS_FAN Pin

21	HDMI interface	24	USB2.0 interface
22	DP interface	25	LAN interface
23	USB3.0 interface	26	AUDIO interface(1*LINE IN、1*LINE OUT、1*MIC)

B86PRD_V10 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) SPK Pin

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

(3) 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

(4) USB30_F1 Pin

Location	Pin	Definition	Pin	Definition
USB30_F1	2		1	VBUS
	4	VBUS	3	SSRX1-
	6	SSRX2-	5	SSRX1+
	8	SSRX2+	7	GND
	10	GND	9	SSTX1-
	12	SSTX2-	11	SSTX1+
	14	SSTX2+	13	GND
	16	GND	15	D1-
	18	D2-	17	D1+
	20	D2+	19	NC

(7) 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

(14) CPU_FAN Pin

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

(20) SYS_FAN Pin

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