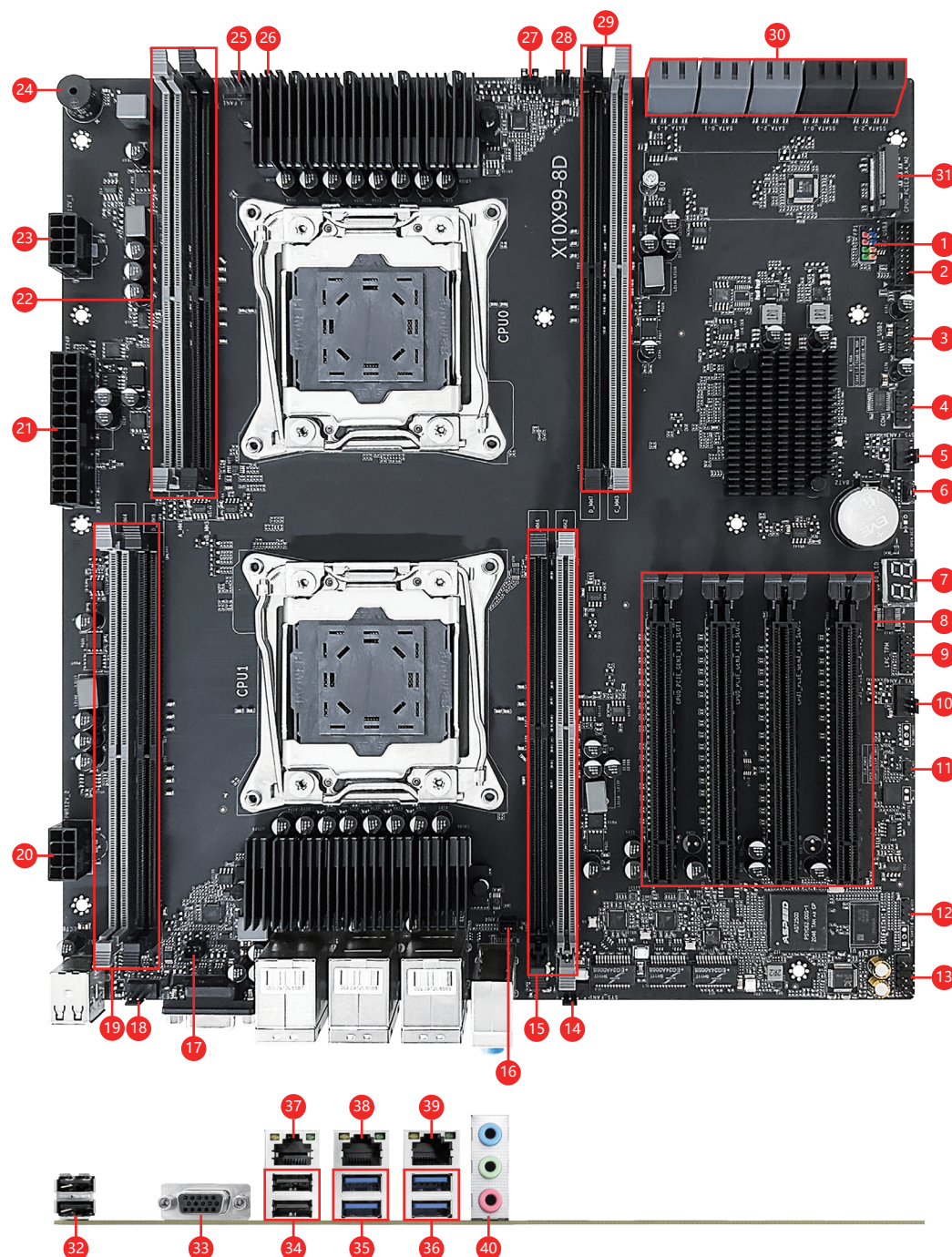


Product characteristics:

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X10X99-8D Motherboard Specifications

Size	320mm*290mm,EATX	
CPU	Supports dual-channel Intel LGA2011-R3 Haswell/Broadwell CPU	
Chipset	Intel C612 series	
RAM	It supports 8 memory channels, supports up to DDR4-2400MHz in a single memory, and supports a maximum capacity of 256GB	
Internal I/O	1*Front panel1 Pin 1*F_USB3 Pinn(Support 2*USB3.0 interface) 1*F_USB2 Pin (Support 2*USB2.0 interface) 1*COM1 Pin 4*SYS_FAN1-4 Pin 1*DIS_VGA Pin 1*LPC_TPM Pin 1*CLR_CMOS Pin	1*BMC_SMBus Pin 1*F_AUDIO Pin 4*FAN1-4 Pin 2*CPU_FAN1-2 Pin 2*8Pin Power outlets 1*24Pin Power outlets 10*SATA Data interface
Rear I/O	4*USB2.0 interface 1*VGA interface 4*USB3.0 interface 1*IPMI LAN interface(100MbE) 2*LAN interface(2.5GbE) 1*AUDIO interface (1*LINE IN、1*LINE OUT、1*MIC)	
Storage interface	6*SATA3.0 6Gb/s Hard disk interface / 4*sSATA3.0 6Gb/s Hard disk interface	
Fan interface	2*CPU_FAN (SIO control) / 4*SYS_FAN (BMC control)	
Power supply is counted	8+8 phase power supply	
PCB Number of layers	8 floors	
Integrated network card	2*2.5GbE/1000MbE/100MbE BASE-T Ethernet card 1*1000MbE/100MbE/10MbE BASE-T Ethernet card	
Integrated sound card	Onboard 5.1-channel sound card	
Integrated graphics	BMC Module integrated display VGA(1920*1080 32/16bpp@60Hz)	
IO expansion slot	1个M.2 2280 PCIe 3.0 X4 slot / 4个PCIe 3.0 X16 slot	
System management	The onboard AST2500 BMC management module, which supports remote management of web pages, voltage, speed, and temperature and CPU status, and supports remote KVM and serial port redirection (optional)	
BIOS	AMI UEFI BIOS	
operating system	Windows7/10/11/Server 2016/2019/2022/2025/Linux	



1	Front panel1 Pin
2	F_USB3 Pin
3	F_USB2 Pin
4	COM1 Pin
5	SYS_FAN3 Pin
6	DIS_VGA Pin
7	80_LED
8	CPU_PCIE_Gen3_X16 slot(1-4)
9	LPC_TPM Pin
10	SYS_FAN4 Pin
11	CLR_CMOS Pin
12	BMC_SMBus Pin
13	F_AUDIO Pin
14	SYS_FAN1 Pin
15	DDR4 memory slot
16	FAN4 Pin
17	FAN3 Pin
18	CPU_FAN2 Pin
19	DDR4 memory slot
20	8Pin Power outlets
21	24Pin Power outlets
22	DDR4 memory slot

23	8Pin Power outlets	32	USB2.0 interface
24	buzzer	33	VGA interface
25	CPU_FAN1 Pin	34	USB2.0 interface
26	FAN2 Pin	35	USB3.0 interface
27	FAN1 Pin	36	USB3.0 interface
28	SYS_FAN2 Pin	37	IPMI LAN interface(1000MbE)
29	DDR4 memory slot	38	LAN interface(2.5GbE)
30	SATA Data interface	39	LAN interface(2.5GbE)
31	CPU0_PCIE3_X4_M2 slot	40	AUDIO interface

X10X99-8D Mainboard Definition

(1) Front panel Pin

Location	Pin	Definition	Pin	Definition
FP1 (2.54mm)	1	HDD_LED_PWR	2	Power
	3	HDD_LED_N	4	PWR_LED_N
	5	GND	6	PWR_BTN_N
	7	RST_BTN_N	8	GND
	9	GND	10	

(2) F_USB3 Pin

Location	Pin	Definition	Pin	Definition
F_USB3 (2.0mm)	20		1	VBUS
	19	VBUS	2	SSRX1-
	18	SSRX2-	3	SSRX1+
	17	SSRX2+	4	GND
	16	GND	5	SSTX1-
	15	SSTX2-	6	SSTX1+
	14	SSTX2+	7	GND
	13	GND	8	D1-
	12	D2-	9	D1+
	11	D2+	10	NC

(3) F_USB2 Pin

Location	Pin	Definition	Pin	Definition
F_USB2 (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		10	NC

(4) 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	10	

(5/10/14/28) SYS_FAN1-4 Pin

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

(6) DIS_VGA Pin

DIS_VGA	
Close 1-2	Enable VGA
Close 2-3	Disable VGA

(9) LPC_TPM Pin

Location	Pin	Definition	Pin	Definition
LPC_TPM	2	P3V3_AUX	1	CLK_33M
	4	P3V3	3	RST_N
	6	SIRQ	5	LPC_LAD0
	8	P5V	7	LPC_LAD1
	10		9	LPC_LAD2
	12	GND	11	LPC_LAD3
	14	GND	13	LPC_RAME

(11) CLR_CMOS Pin

CLR_CMOS	
OPEN	NORMAL
Short_1-2	CLEAR CMOS

(12) BMC_SMBus Pin

Location	Pin	Definition
BMC_SMBus	1	DATA
	2	GND
	3	CLK

(13) F_AUDIO1 Pin

Location	Pin	Definition	Pin	Definition
F_AUDIO1 (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

(16/17/26/27) FAN1-4 Pin

Location	Pin	Definition
FAN	1	GND
	2	P5V

(18/25) CPU_FAN Pin

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

(20/23) 8Pin Power outlets

Location	Pin	Definition	Pin	Definition
PWR12V_1 PWR12V_2	8	P12V	4	GND
	7	P12V	3	GND
	6	P12V	2	GND
	5	P12V	1	GND