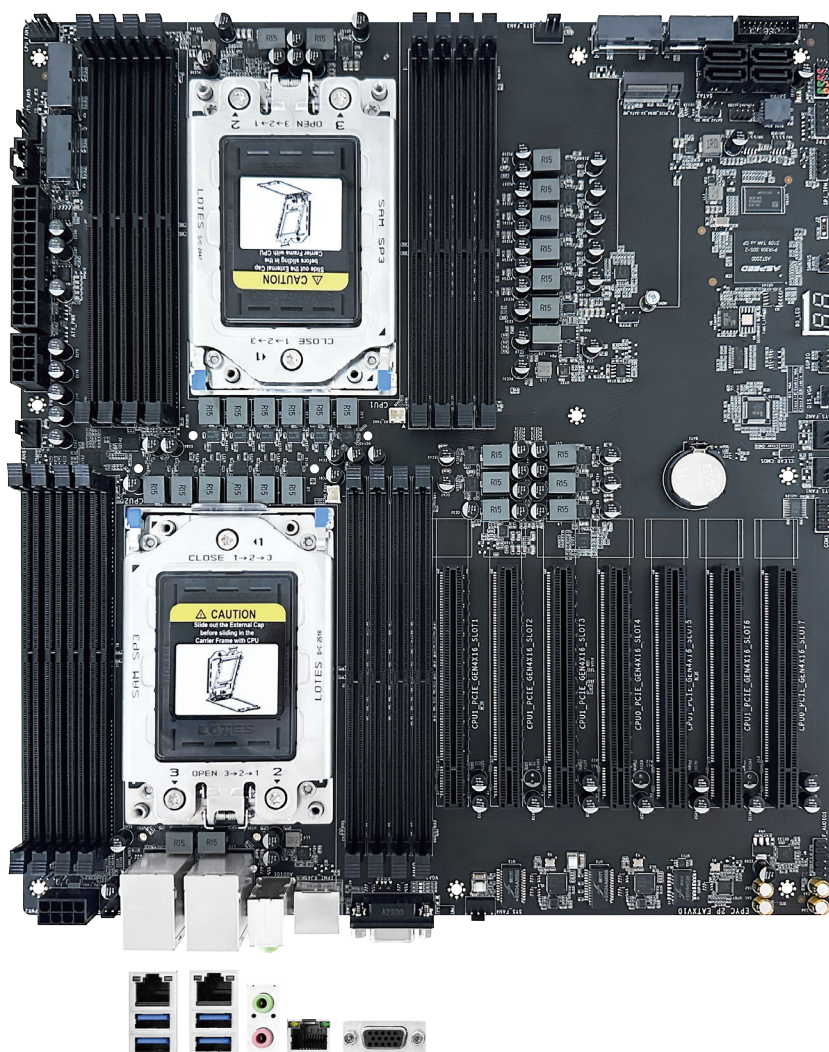


ZA-EPYC_2P_EATXV10 Mainboard

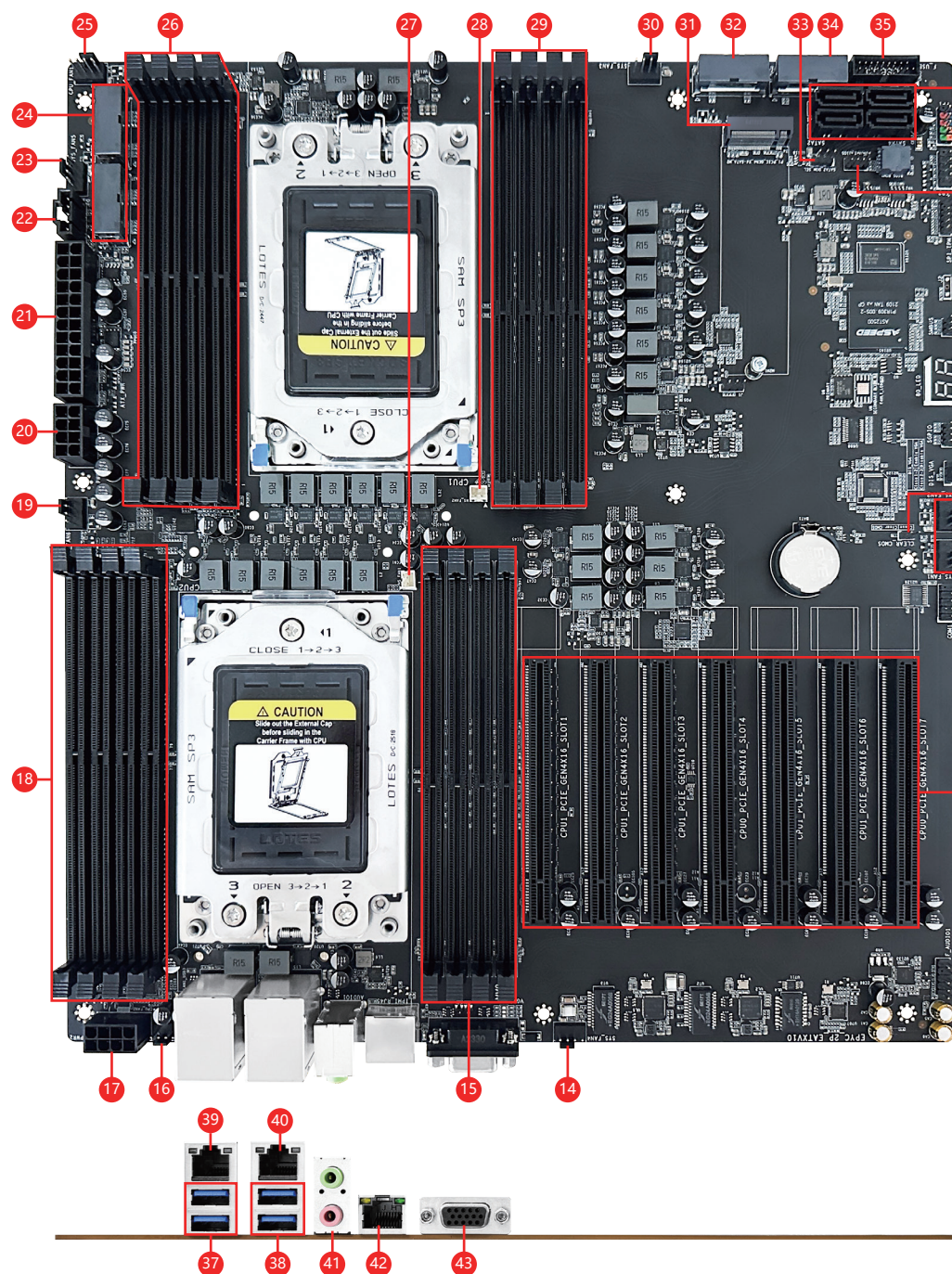
Product characteristics:

- Supports dual AMD EPYC™ 7002/7003 series processors(SP3 socket)
- 16-channel DDR4 memory technology supports up to 3200MT/s
- Multiple PCIe 4.0 expansion slots provide extreme I/O bandwidth
- Rich storage interfaces: Support SATA3.0, U.2, M.2 NVMe SSDs
- Dual 2.5GbE service LAN ports are integrated, and BMC remote management LAN ports are integrated
- Integrated ASPEED AST2500 BMC management chip, provided:Advanced monitoring and management capabilities



ZA-EPYC_2P_EATXV10 Motherboard Specifications

Size	336mm*305mm,EATX	
CPU	Supports dual AMD EPYC™ 7002/7003 series processors(SP3 socket)	
RAM	Supports 16 DDR4 memory channels, memory frequency: supports 2133-3200 MT/s (The maximum capacity depends on the maximum supported capacity of the CPU)	
Internal I/O	2*Front panel Pin(1-2) 1*UPDATE_BIOS Pin 1*SPI_TPM Pin 1*SMBus Pin 1*SGPIO Pin 1*DIS_VGA Pin 1*CLEAR_CMOS Pin 6*SYS_FAN Pin(1-6)	1*COM1 Pin 2*CPU_FAN Pin(1-2) 2*8Pin Power outlet 1*24Pin Power outlet 1*PMBus Pin 1*SATA2_DOM_SEL Pin 1*F_USB3 Pin(Support 2*USB3.0 interface) 4*SATA Data interface(1-4)
Rear I/O	4*USB3.0 interface 2*LAN interface(2.5GbE) 1*AUDIO interface (1*LINE OUT、1*MIC) 1*IPMI LAN interface(100MbE) 1*VGA interface	
Storage interface	12*SATA 3.0 ports (RAID 0, 1, 10 supported; 8 SATA Ports from SLMSAS1) Among them, SATA1/SATA2 on the board can support SATA_DOM(SATA2 supports SATA_DOM, jumping cap required) 8*U.2 NVMe (supported via SLMSAS1/2/3/4 interfaces; If SLMSAS1 is used for 8 SATA Ports,Up to 6 U.2 NVMe are supported at this time) 1*M.2 NVMe (supports NVMe SSD or SATA SSD)	
Fan interface	2*CPU_FAN (SIO control) / 6*SYS_FAN (BMC control)	
PCB	16 floors	
LAN	2*2.5GbE/1000MbE/100MbE BASE-T Ethernet card 1*100MbE/10MbE BASE-T Ethernet card	
sound card	Onboard sound card	
Graphics	BMC Module integrated display VGA(1920*1080 32/16bpp@60Hz)	
Expansion slot	1个M.2 2280 PCIe 4.0 X4 slot / 7个PCIe 4.0 X16 slot	
System management	The onboard AST2500 BMC management module, which supports remote management of web pages, voltage, speed, and temperatureand CPU status, and supports remote KVM and serial port redirection	
BIOS	AMI UEFI BIOS	
OS	Windows Server, Linux, VMware ESXi, Citrix XenServer	



1	Front panel1 Pin
2	Front panel2 Pin
3	UPDATE_BIOS Pin
4	SPI_TPM Pin
5	SMBus Pin
6	80_LED
7	SGPIO Pin
8	DIS_VGA Pin
9	CLEAR_CMOS Pin
10	SYS_FAN Pin(1-2)
11	COM1 Pin
12	CPU_PCIE_Gen4_X16 slot(1-7)
13	F_AUDIO Pin
14	SYS_FAN4 Pin
15	DDR4 slot
16	CPU_FAN2 Pin
17	8Pin Power outlet
18	DDR4 slot
19	SYS_FAN6 Pin
20	8Pin Power outlet
21	24Pin Power outlet
22	PMBus Pin
23	SYS_FAN5 Pin

24	SLIMSAS slot (1-2)	34	SLIMSAS slot 4
25	CPU_FAN1 Pin	35	F_USB3 Pin
26	DDR4 slot	36	SATA Data interface(1-4)
27	HS_FAN1 Pin	37	USB3.0 interface
28	HS_FAN2 Pin	38	USB3.0 interface
29	DDR4 slot	39	LAN interface(2.5GbE)
30	SYS_FAN3 Pin	40	LAN interface(2.5GbE)
31	P1_PCIE_GEN4_X4_SATA_M2 slot	41	AUDIO interface
32	SLIMSAS slot 3	42	IPMI LAN interface(100MbE)
33	SATA2_DOM_SEL Pin	43	VGA interface

ZA-EPYC_2P_EATXV10 Mainboard Definition

(1/2) Front panel Pin

Location	Pin	Definition	Pin	Definition
FP1 (2.54mm)	1	HDD_LED_P/5V	2	PWR_LED_P/3.3V
	3	HDD_LED_N	4	PWR_LED_N
	5	GND	6	PWR_BTN_N
	7	RST_BTN_N	8	GND
	9	GND		

Location	Pin	Definition	Pin	Definition
FP2 (2.54mm)	1	UID_LED+/5V_DUAL	2	NIC1_LED+/3.3V_DUAL
	3	UID_LED-	4	NIC1_LED-
	5	GND	6	NIC2_LED+/3.3V_DUAL
	7	UID_BTN_N	8	NIC2_LED-
	9	GND		

(5) SMBus Pin

Location	Pin	Definition	Pin	Definition
SMBus (2.0mm)	1	MGMT_SMBUS_CLK7	2	MGMT_SMBUS_CLK6
	3	MGMT_SMBUS_DATA7	4	MGMT_SMBUS_DATA6
	5	GND	6	GND

(7) SGPIO Pin

Location	Pin	Definition	Pin	Definition	Note
SGPIO	1	SGPIO0_CLK	2	SGPIO1_CLK	SGPIO0 is used for SATA1~SATA4 Port SGPIO1 is used to SLMSAS1 8 SATA port
	3	SGPIO0_DATAPUT	4	SGPIO1_DATAPUT	
	5	SGPIO0_LOAD	6	SGPIO1_LOAD	
	7	GND	8	GND	

(8) DIS_VGA Pin

Location	Pin	Definition
DIS_VGA	1-2	Enable VGA-default
	2-3	Disable VGA

(9) CLEAR_CMOS Pin

Location	Pin	Definition
CLEAR_CMOS	1-2_Open	NORMAL-default
	1-2_Close	CLEAR CMOS

(10/14/19/23/30) SYS_FAN1-6 Pin

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

(11) 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	10	

(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

(16/25) CPU_FAN Pin

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

(17/20) 8Pin Power outlet

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

(22) PMBus Pin

Location	Pin	Definition
PMBus	1	PMBus_CLK
	2	PMBus_DATA
	3	PMBus_Alert_N
	4	GND
	5	NC

(27/28) HS_FAN1-2 Pin

Location	Pin	Definition
FAN	1	GND
	2	P5V

(33) SATA2_DOM_SEL Pin

Location	Pin	Definition
SATA2_DOM_SEL	1-2	SATA2 dont support DOM-default
	2-3	SATA2 support DOM

(35) 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