1.2 Specifications

EPYCD8-2T / EPYC	D8 / EPYCD8-2T/R32 / EPYCD8/R32
MB Physical Status	
Form Factor	ATX
Dimension	12" x 9.6" (30.5 cm x 24.4 cm)
Processor System	
CPU	EPYCD8-2T / EPYCD8:
	AMD EPYC™ 7000 series processor family (Naples)
	EPYCD8-2T/R32 / EPYCD8/R32:
	AMD EPYC™ 7000 series processor family (Naples & Rome)
Socket	Single Socket SP3 (LGA4094)
Chipset	N/A
System Memory	
Type	- Eight Channel DDR4 memory technology
	- Supports DDR4 RDIMM and LRDIMM
DIMM Size Per	EPYCD8-2T / EPYCD8:
DIMM	- RDIMM: 32GB, 16GB, 8GB
	- LRDIMM: 128GB, 64GB
	EPYCD8-2T/R32 / EPYCD8/R32:
	- RDIMM: 64GB*, 32GB, 16GB, 8GB
	- LRDIMM: 256GB*, 128GB, 64GB
	*Supported only for Rome CPU.
DIMM Frequency	EPYCD8-2T / EPYCD8:
	- RDIMM: 2666/2400MHz
	- LRDIMM: 2666/2400MHz
	EPYCD8-2T/R32 / EPYCD8/R32:
	- RDIMM: 3200*/2666/2400MHz
	- LRDIMM: 3200*/2666/2400MHz
	*Supported only for Rome CPU.
Voltage	1.2V
Expansion Slot	
PCIe 3.0 x 16	PCIE1: Gen3 x16 link
PCIe 3.0 x 8	PCIE3: Gen3 x16 link
	PCIE5: Gen3 x16 link
	PCIE7: Gen3 x16 link
	PCIE2: Gen3 x8 link
	PCIE4: Gen3 x8 link
	PCIE6: Gen3 x8 link

SATA Controller 9 x SATA3 6.0 Gb/s (from 2x mini SAS HD and 1x SATA DOM port) M.2 Slot 2(2230/2242/2260/2280/22110, SATA/PCIE(X4)) Ethernet Interface EPYCD8-2T / EPYCD8-2T/R32: 10000/1000 /100 Mbps by Intel X550 EPYCD8 / EPYCD8/R32: 1000 /100 /10 Mbps by Intel i350 LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	SATA Controller 9 x SATA3 6.0 Gb/s (from 2x mini SAS HD and 1x SATA DOM port) M.2 Slot 2(2230/2242/2260/2280/22110, SATA/PCIE(X4)) Ethernet Interface EPYCD8-2T / EPYCD8-2T/R32: 10000/1000 /100 Mbps by Intel X550 EPYCD8 / EPYCD8/R32: 1000 /100 /10 Mbps by Intel X550 EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port SASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	Storage	
Dort	M.2 Slot 2(2230/2242/2260/2280/22110, SATA/PCIE(X4))		9 x SATA3 6.0 Gb/s (from 2x mini SAS HD and 1x SATA DOM
Ethernet	Ethernet Interface EPYCD8-2T / EPYCD8-2T/R32: 10000/1000 /100 Mbps by Intel X550 EPYCD8 / EPYCD8/R32: 1000 /100 /10 Mbps by Intel i350 LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Wake-On-LAN - Supports Pase - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel Header I (includes chassis intrusion, location button & LED, and front LAN LED)		
Ethernet Interface EPYCD8-2T / EPYCD8-2T/R32: 10000/1000 /100 Mbps by Intel X550 EPYCD8 / EPYCD8/R32: 1000 /100 /100 Mbps by Intel i350 LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x R]45 10G base-T by Intel* X550 - 1 x R]45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x R]45 GLAN by Intel* i350 - 1 x R]45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x R]45 GLAN by Intel* i350 - 1 x R]45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Wake-On-LAN - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID UID	Ethernet Interface EPYCD8-2T / EPYCD8-2T/R32: 10000/1000 /100 Mbps by Intel X550 EPYCD8 / EPYCD8/R32: 1000 /100 /10 Mbps by Intel i350 LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Wake-On-LAN - Supports Pase - LAN1 supports NCSI Management BMC Controller BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel I (includes chassis intrusion, location button & LED, and front LAN LED)	M.2 Slot	
LAN Controller EPYCD8 / EPYCD8/R32: 1000 /100 /10 Mbps by Intel i350 LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	LAN Controller EPYCD8/R32: 1000 /100 Mbps by Intel x550	Ethernet	
EPYCD8 / EPYCD8/R32: 1000 /100 Mbps by Intel i350 LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID UID	EPYCD8 / EPYCD8/R32: 1000 /100 Mbps by Intel i350 EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller	Interface	EPYCD8-2T / EPYCD8-2T/R32:
LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID UID	LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel Header 1 (includes chassis intrusion, location button & LED, and front LAN LED)		10000/1000 /100 Mbps by Intel X550
LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x R]45 10G base-T by Intel® X550 - 1 x R]45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x R]45 GLAN by Intel® i350 - 1 x R]45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x R]45 GLAN by Intel® i350 - 1 x R]45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports PXE - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID UID	LAN Controller EPYCD8-2T / EPYCD8-2T/R32: - 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller		EPYCD8 / EPYCD8/R32:
- 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller	- 2 x RJ45 10G base-T by Intel* X550 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller		
- 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel® i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Ports with LED (ACT/LINK LED and SPEED LED) UID UID 1	- 1 x RJ45 Dedicated IPMI LAN port by RTL8211E EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller	LAN Controller	EPYCD8-2T / EPYCD8-2T/R32:
EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel® i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller	EPYCD8 / EPYCD8/R32: - 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller		- 2 x RJ45 10G base-T by Intel® X550
- 2 x RJ45 GLAN by Intel* i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID UID 1	- 2 x RJ45 GLAN by Intel® i350 - 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller		- 1 x RJ45 Dedicated IPMI LAN port by RTL8211E
- 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	- 1 x RJ45 Dedicated IPMI LAN port by RTL8211E - Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller		EPYCD8 / EPYCD8/R32:
- Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller	- Supports Wake-On-LAN - Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller		- 2 x RJ45 GLAN by Intel® i350
- Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller	- Supports Energy E_cient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller		- 1 x RJ45 Dedicated IPMI LAN port by RTL8211E
- Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller	- Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)		- Supports Wake-On-LAN
- Supports PXE - LAN1 supports NCSI Management BMC Controller	- Supports PXE - LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port -2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)		- Supports Energy E_cient Ethernet 802.3az
- LAN1 supports NCSI Management BMC Controller	- LAN1 supports NCSI Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port -2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)		- Supports Dual LAN with Teaming function
Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port -2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port -2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)		- Supports PXE
Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port -2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	Management BMC Controller ASPEED AST2500 IPMI Dedicated 1 x Realtek RTL8211E for dedicated management GLAN GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port -2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)		- LAN1 supports NCSI
IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	IPMI Dedicated GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID Internal Connector Auxiliary Panel Header I (includes chassis intrusion, location button & LED, and front Header LAN LED)	Management	
GLAN Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	GLAN Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	BMC Controller	ASPEED AST2500
Features Watch Dog NMI Graphics Controller VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	Features Watch Dog NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	IPMI Dedicated	1 x Realtek RTL8211E for dedicated management GLAN
NMI	NMI Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	GLAN	
Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	Graphics Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	Features	Watch Dog
Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	Controller ASPEED AST2500 VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)		NMI
VRAM DDR4 256MB Rear Panel I/O VGA Port VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	VRAM DDR4 256MB Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	Graphics	
Rear Panel I/O VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	Rear Panel I/O VGA Port	Controller	ASPEED AST2500
VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	VGA Port 1 x D-Sub Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	VRAM	DDR4 256MB
Serial port 1 x COM port USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	Serial port 1 x COM port	Rear Panel I/O	
USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	USB 3.0 Port 2 LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	VGA Port	1 x D-Sub
LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	LAN Port - 2+1 RJ45 Gigabit Ethernet LAN port - LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	Serial port	1 x COM port
- LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1	- LAN Ports with LED (ACT/LINK LED and SPEED LED) UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	USB 3.0 Port	2
UID 1	UID 1 Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	LAN Port	- 2+1 RJ45 Gigabit Ethernet LAN port
	Internal Connector Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)		- LAN Ports with LED (ACT/LINK LED and SPEED LED)
Internal Connector	Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front Header LAN LED)	UID	1
Internal Connector	Header LAN LED)	Internal Connector	
Auxiliary Panel 1 (includes chassis intrusion, location button & LED, and front	,	Auxiliary Panel	1 (includes chassis intrusion, location button & LED, and front
Header LAN LED)	TPM Header 1	Header	LAN LED)
TPM Header 1	111111111111111111111111111111111111111	TPM Header	1

IPMB Header	1
Fan Header	7 Fans x 6-pin (1CPU/4Front/2Rear)
ATX Power	1 x (24-pin) + 1 x (8-pin) + 1 x (4-pin) + 1 x (6-pin)(6 pin for
	GPU for PCIE Slot)
USB 3.0 Header	1 (supports 2 USB 3.0 ports)
M.2	2(M2_1: 2230/2242/2260/2280, SATA/PCIE(X4);
	M2_2:2230/2242/2260/2280/22110, SATA/PCIE(X4))
SATA DOM	1
OCulink	2
BMC SMB	1
SATA SGPIO	1
PSU SMB	1
TR	1
80 debug port LED	1
Speaker(4pin)	1
ClearCMOS	1
OH/FanFail LED	1 (only Fan Fail LED)
Front LED	1
System BIOS	
BIOS Type	EPYCD8-2T / EPYCD8:
BIOS Type	EPYCD8-2T / EPYCD8: 16MB AMI UEFI Legal BIOS
BIOS Type	
BIOS Type	16MB AMI UEFI Legal BIOS
BIOS Type BIOS Features	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32:
	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS
	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP)
	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events
	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support
BIOS Features	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support
BIOS Features Hardware Monitor	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash - CPU Temperature Sensing
BIOS Features Hardware Monitor	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash
BIOS Features Hardware Monitor Temperature	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash - CPU Temperature Sensing - MB/TR1/Card side Temperature Sensing
BIOS Features Hardware Monitor Temperature	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash - CPU Temperature Sensing - MB/TR1/Card side Temperature Sensing - CPU/Rear/Front Fan Tachometer
BIOS Features Hardware Monitor Temperature	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash - CPU Temperature Sensing - MB/TR1/Card side Temperature Sensing - CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU Temperature)
BIOS Features Hardware Monitor Temperature	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash - CPU Temperature Sensing - MB/TR1/Card side Temperature Sensing - CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU
BIOS Features Hardware Monitor Temperature Fan	16MB AMI UEFI Legal BIOS EPYCD8-2T/R32 / EPYCD8/R32: 32MB AMI UEFI Legal BIOS - Plug and Play (PnP) - ACPI 2.0 Compliance Wake Up Events - SMBIOS 2.8 Support - ASRock Rack Instant Flash - CPU Temperature Sensing - MB/TR1/Card side Temperature Sensing - CPU/Rear/Front Fan Tachometer - CPU Quiet Fan (Allow CPU Fan Speed Auto-Adjust by CPU Temperature) - CPU/Rear/Front Fan Multi-Speed Control

Support OS Microsoft® Windows® OS - Server 2012 R2 (64 bit) - Server 2016 (64 bit) Linux® - RedHat Enterprise Linux Server 6.9 (64 bit) / 7.3 (64 bit) - CentOS 6.9 (64 bit) / 7.3 (64 bit) - SUSE Enterprise Linux Server 11 SP4 (64 bit) / 12 SP2 (64 bit) - Ubuntu 16.04 (64 bit) / 17.04 (64 bit) - CITRIX XenServer 7.5 Virtual:

- VMWare ESXi 6.5 u1

- vSphere 6.5 u1

* Please refer to our website for the latest OS support list.

Environment

Temperature

Operation temperature: 10°C ~ 35°C / Non operation

temperature: -40°C ~ 70°C

NOTE: Please refer to our website for the latest specifications.



This motherboard supports Wake from on Board LAN. To use this function, please make sure that the "Wake on Magic Packet from power off state" is enabled in Device Manager > Intel® Ethernet Connection > Power Management. And the "PCI Devices Power On" is enabled in UEFI SETUP UTILITY > Advanced > ACPI Configuration. After that, onboard LAN1&2 can wake up S5 under OS.



If you install Intel® LAN utility or Marvell SATA utility, this motherboard may fail Windows* Hardware Quality Lab (WHQL) certification tests. If you install the drivers only, it will pass the WHQL tests.