



TURIND8X-2T/500W

Preliminary

- TDP up to 500W
- EEB (12.63" x 13")
- Single Socket SP5 (LGA 6096), supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
- 8 DIMM slots (1DPC), supports DDR5 RDIMM, RDIMM-3DS
- 4 PCIe5.0 / CXL2.0 x16*, 3 PCIe5.0 x16, 1 PCIe5.0 x8**
- 2 MCIO** (PCIe5.0 x4 or 4 SATA 6Gb/s), 1 MCIO (PCIe5.0 x4 or 4 SATA 6Gb/s), 1 MCIO* (PCIe5.0 x4)
- Supports 1 M.2 (PCIe5.0 x4 or SATA 6Gb/s), 1 M.2* (PCIe5.0 x4)
- Up to 16 SATA 6Gb/s
- 2 RJ45 (10GbE) by Broadcom BCM57416
- Remote Management (IPMI)

Specifications

Physical Status	
Form Factor	EEB
Dimensions	12.63" x 13"
Processor System	
CPU	Supports AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
Socket	Single Socket SP5 (LGA 6096)
Thermal Design Power	Up to 500W
Chipset	System on Chip
System Memory	
Supported DIMM Quantity	8 DIMM slots (1DPC)
Supported Type	Supports DDR5 288-pin RDIMM, RDIMM-3DS
Max. Capacity per DIMM	RDIMM: 128GB (2Rx4) RDIMM-3DS: 256GB (2Rx4)
Max. DIMM Frequency	6400 MHz
Voltage	1.1V

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PCIe Expansion Slots (SLOT7 close to CPU)	
PCIe x 16	SLOT6: PCIe5.0 / CXL2.0* x16□ SLOT5: PCIe5.0 x16 SLOT4: PCIe5.0 / CXL2.0* x16□ SLOT3: PCIe5.0 x16 SLOT2: PCIe5.0 / CXL2.0* x16□ SLOT1**: PCIe5.0 x16 SLOT0: PCIe5.0 / CXL2.0* x16 *Supports CXL1.1 while installing AMD EPYC 9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors **SLOT1 shared lanes with 1 MCIO and 1 M.2. SLOT1 auto-switch to PCIe5.0 x8 when either 1 MCIO or 1 M.2 populated.
PCIe x 8	SLOT7***: PCIe5.0 x8 ***SLOT7 share lanes with 2 MCIO. When SLOT7 occupied, 1 MCIO will not function and 1 MCIO can be enabled by jumper setting. When selecting 1 MCIO, SLOT7 will switch to PCIe4.
Other PCIe Expansion Connectors	
M.2 slot	1 M-key (PCIe5.0 x4 or 4 SATA 6Gb/s), supports 22110/2280 form factor 1 M-key** (PCIe5.0 x4), supports 22110/2280 form factor
Others	2 MCIO*** (PCIe5.0 x4 or 4 SATA 6Gb/s) 1 MCIO (PCIe5.0 x4 or 4 SATA 6Gb/s) 1 MCIO** (PCIe5.0 x4)
SATA/SAS Storage	
PCH Built-in Storage	AMD EPYC 9005/9004 (16 SATA 6Gb/s): 3 MCIO, 4 SATA via optional M2U2_HD_G4 M.2 device
Ethernet	
Additional GbE Controller	Broadcom BCM57416: 2 RJ45 (10GbE)
Server Management	
BMC Controller	ASPEED AST2600
IPMI Dedicated GLAN	1 Realtek RTL8211F for dedicated management GLAN
Graphics	
Controller	ASPEED AST2600
VRAM	DDR4 512MB
Rear I/O	
UID Button/LED	1 UID button w/ LED
Video Port	1 DB15 (VGA)
Serial Port	1 DB9 (COM)
USB 3.2 Gen1 Port	2 Type-A (USB3.2 Gen1)
RJ45	2 RJ45 (10GbE) 1 dedicated IPMI
Internal Connector/Headers	
Power Connector	1 (24-pin, ATX main power), 3 (8-pin, ATX 12V)
Auxiliary Panel Header	1 (18-pin): chassis intrusion, system fault LED, LAN1/LAN2 activity LED, locate, SMBus
System Panel	1 (9-pin): power switch, reset switch, system power LED, HDD activity LED

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COM Header	1
VGA header	1
Speaker Header	1 (4-pin)
Fan Header	8 (6-pin)
Thermal Sensor Header	1
TPM Header	1 (13-pin, SPI)
SMBus header	1
PMBus header	1
IPMB Header	1
Clear CMOS	1 (contact pads)
USB 3.2 (Gen1) Header	1 (19-pin, 2 USB3.2 Gen1)
NMI Header	1
LED Indicators	
Standby PWR LED	1 (5VSB)
80 Debug Port LED	1
Fan Fail LED	8
BMC heartbeat LED	1
System BIOS	
BIOS Type	AMI UEFI BIOS; 256 Mb (32MB) SPI Flash ROM
BIOS Features	ASRock Rack Instant Flash, ACPI 6.4 and above compliance wake up events, SMBIOS 3.5.0 and above, Plug and Play(PnP)
Hardware Monitor	
Temperature	CPU, MB, TR1 Temperature sensing
Fan	CPU/Rear/Front Fan Tachometer CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) CPU/Rear/Front Fan Multi-Speed Control
Voltage	VCORE,VCCSA,VCCM,3V, 5V, 12V, +1.05V_PCH_AUX,+BAT, 3VSB, 5VSB,VCCIO,+2.5V_VPP

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Supported OS	
OS	Microsoft® Windows: (for EPYC 9004) - Server 2019 (64 bit) - Server 2022 (64 bit)
	Microsoft® Windows: (for EPYC 9005) - Server 2019 (64 bit) - Server 2022 (64 bit) - Server 2025 (64 bit)
	Linux: (for EPYC 9004) - RedHat Enterprise Linux Server 8.6 (64bit) / Server 8.7 (64 bit) / Server 9.0 (64 bit) / Server 9.1 (64 bit) - SUSE SLES 15.4 (64 bit) - Ubuntu 20.04.5 (64 bit) / 22.04 (64 bit) / 22.10 (64 bit)
	Linux: (for EPYC 9005) - RedHat Enterprise Linux Server 8.10 (64bit) / Server 9.4 (64 bit) - SUSE SLES 15.6 (64 bit) - Ubuntu 22.04.5 (64 bit) / 24.04.2 (64 bit)
	Hypervisor: (for EPYC 9004) - VMWare® ESXi 8.0 Hypervisor: (for EPYC 9005) - VMWare® ESXi 9.0
Environment	
Temperature	Operation temperature: 10°C ~ 35°C / Non operation temperature: -40°C ~ 70°C
Humidity	Non operation humidity: 20% ~ 90% (Non condensing)

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