

Advancing Data Center Performance & Efficiency

4th Generation AMD EPYC™ Processors (9004 & 8004 Series)



An EPYC™ Processor for Any Workload

No matter what the workload demands are, the 4th Gen AMD EPYC™ processor portfolio offers a solution to advance your business. From general purpose to edge computing, there is a processor to meet every data center need.

World's Best Data Center CPU

Leadership Performance: AMD EPYC™ Processors power the highest-performing x86 servers for the modern data center, on prem and in cloud environments, across industries.

Energy Efficiency: AMD EPYC™ processors power the most energy-efficient x86 servers, helping you reduce energy costs and meet corporate sustainability goals.

Security: Every AMD EPYC™ processor includes AMD Infinity Guard, a comprehensive suite of security features that can keep your data safe.

A New Level of Performance and Efficiency

4th Gen AMD EPYC™ processor-based servers deliver transformative experiences across some of the most popular workloads.

~70% increase enterprise critical operation throughput – maintain SLAs*
*SPECjbb2015-MultiJVM Critical-jOPS 2P 96C EPYC™ 9654 vs. 2P 60C Xeon Platinum 8490H

~2.1x the speed time-to-market running HPC Computational Fluid Dynamics*
*ANSYS® Fluent™ 2022 R2 Test Cases 2P 96C EPYC™ 9684X vs. 2P 56C Xeon 8480+

~2.7x the performance-per-system watt - lower server energy costs*
*SPECpower_ssj2008 overall ssj_ops/W 2P128C EPYC™ 9754 vs. 2P 128C Altra™ Max M128-30

AMD EPYC™ Processors power the highest-performing x86 servers for the modern data center with World Record performance across major industry benchmarks.

- 73 Business Applications World Records
- 53 Data Management and Analytics World Records
- 109 HPC/Technical Applications World Records
- 36 Infrastructure/HCI/SDI World Records
- 45 Energy Efficiency World Records

Innovative Design for a Wide Range of Workloads

The 4th Generation AMD EPYC™ processor family includes general purpose and workload-optimized solutions. These processors include up to 128 "Zen 4" or "Zen 4c" cores with exceptional memory bandwidth and capacity. The innovative AMD chiplet architecture enables high performance, energy-efficient solutions optimized for your different computing needs.

AMD EPYC™ 4004 Processors

High-performance, validated server CPUs designed for easy-to-use, low-cost systems for growing businesses

AMD EPYC™ 4004 Series processors complement the broad AMD EPYC processor offering, extending the established high performance, highly efficient "Zen4" core architecture into an expanded range of entry level system designs desired by small business customers as well as regional hosted IT services providers.

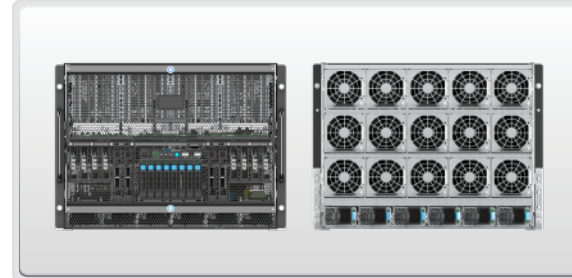
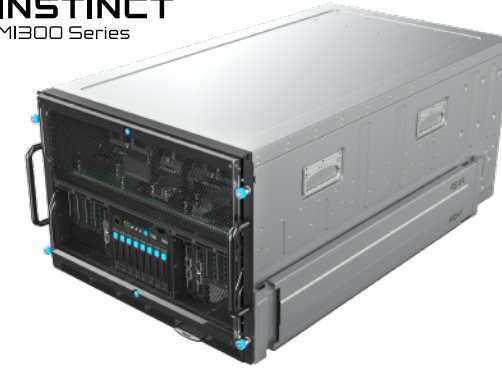
AMD Instinct™ MI300X Accelerators



Leading-Edge Discrete GPU for AI and HPC

AMD Instinct™ MI300X accelerators are designed to deliver leadership performance for Generative AI workloads and HPC applications.

TYAN® UT85A-B8267

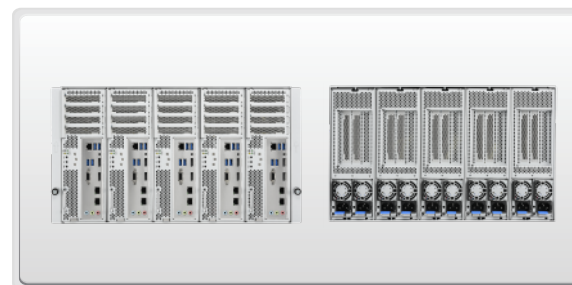


8U AMD Instinct™ MI300 accelerators server platform designed for advance large-scale AI and HPC infrastructure

Model Number	UT85A-B8267
Enclosure Form Factor	8U (33.46" in depth)
Supported CPU	(2) AMD EPYC™ 9004 series processor
Number of DIMM Slot	24 / 12+12
Memory Type (max. capacity)	Follow the latest AMD EPYC™ 9004 Processor Memory POR Registered DDR5 6000 (2TB)
Storage Controller	NA
Networking	(1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)
PCI Expansion Slots	(12) PCIe 5.0 x16
Power Supply	(3+3) 3300W (@220V _{ac}) CRPS 80+ Titanium

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8267U85AE8HR	(8) 2.5" hot-swap U.2	(12) PCIe 5.0 x16	(1) 1000Base-T (IPMI)

TYAN® HG68-B8016



6U5N cloud gaming server platform accommodating one double-wide GPU per node

Model Number	HG68-B8016
Enclosure Form Factor	6U (26.85" in depth)
Supported CPU	(1) AMD EPYC 4004 series processor (per node)
Number of DIMM Slot	4 (per node)
Memory Type (max. capacity)	Follow the latest AMD EPYC 4004 Series Processor Memory POR DDR5 ECC UDIMM & non-ECC 5200 (128GB)
Storage Controller	AMD B650E FCH
Networking	(2) 1000Base-T (Intel® I210-AT) + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG) (per node)
PCI Expansion Slots	(1) PCIe 4.0 x4 slot + (1) PCIe Gen.4 x8 slot (w/ x4 link) + (1) PCIe Gen.5 x16 slot + (2) PCIe 4.0 x2 NVMe M.2 slots (per node)
Power Supply	(1+1) 800W (@110V/220V _{ac}) CRPS (per node) 80+ Titanium

Standard Model	# Storage Bay (per node)	# PCIe Slots (per node)	Networking (per node)
B8016H68D5	-	(1) PCIe 4.0 x4 slot + (1) PCIe Gen.4 x8 slot (w/ x4 link) + (1) PCIe Gen.5 x16 slot + (2) M.2	(2) 1000Base-T + (1) 1000Base-T (IPMI)



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AMD Server Platforms AMD EPYC™ Processor



TYAN® FT65T-B8050



80 PLUS PLATINUM 80 PLUS GOLD
Pedestal/4U 1S GPU server platform supports multiple high performance GPU cards

Model Number	FT65T-B8050		
Enclosure Form Factor	Pedestal / 4U (25.59" in depth)		
Supported CPU	(1) AMD EPYC™ 9004 series processor		
Number of DIMM Slot	8		
Memory Type (max. capacity)	Follow the latest AMD EPYC™ 9004 Processor Memory POR Registered (3DS) DDR5 4800 (3,072GB)		
Storage Controller	AMD EPYC 9004		
Networking	(2) 10GBase-T (Intel® x710-AT2) (-2T SKU only) + (2) 1000Base-T (2x Intel® i210-AT) + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)		
PCI Expansion Slots	(5) PCIe 5.0 x16 slots		
Power Supply	(1) 2,000W (@220V _{AC}) ATX PSU		

Standard Model	# Storage Bay	# FAN	Networking
B8050F6TV8E2H-2T-N	(8) 3.5" hot-swap SATA + (2) 2.5" hot-swap U.2	(3) hot-swap 12038 + (2) cold-swap 8038	(2) 10GBase-T + (2) 1000Base-T (IPMI)
B8050F6TV8E2H-N	(8) 3.5" hot-swap SATA + (2) 2.5" hot-swap U.2	(3) hot-swap 12038 + (2) cold-swap 8038	(2) 1000Base-T (IPMI)
B8050F6TV8E2H-G	(8) 3.5" hot-swap SATA + (2) 2.5" hot-swap U.2	(3) hot-swap 12038	(2) 1000Base-T (IPMI)



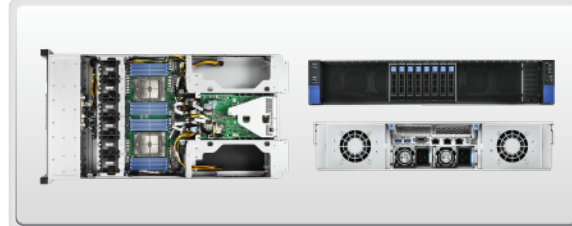
TYAN® TN85-B8261



80 PLUS TITANIUM
2U2S 4-GPU server platform designed for HPC/GPGPU applications

Model Number	TN85-B8261		
Enclosure Form Factor	2U (33.46" in depth)		
Supported CPU	(2) AMD EPYC™ 9004 series processor		
Number of DIMM Slot	24 / 12+12		
Memory Type (max. capacity)	Follow the latest AMD EPYC™ 9004 Processor Memory POR Registered (3DS) DDR5 4800 (3,072GB)		
Storage Controller	AMD EPYC 9004		
Networking	(2) 10GBase-T (Intel® x550-AT2) ports + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)		
PCI Expansion Slots	(6) PCIe 5.0 x16 slots		
Power Supply	(1+1) 2,700W (@220V _{AC}) CRPS 80+ Titanium		

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8261T85EHR-2T-N	(8) 2.5" hot-swap U.2	(6) PCIe 5.0 x16	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B8261T85E24HR-2T	(24) 2.5" Hot-Swap U.2	(4) PCIe 5.0 x16	(2) 10GBase-T + (1) 1000Base-T (IPMI)



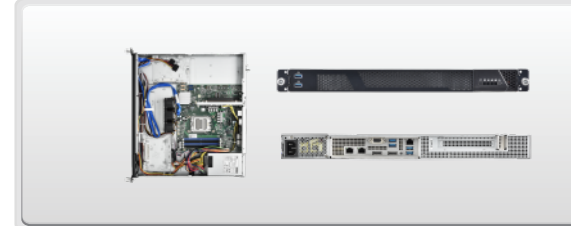
TYAN® GX40-B8016



80 PLUS GOLD
1U1S server platform designed for cost-effective edge compute node

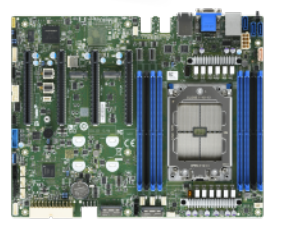
Model Number	GX40-B8016		
Enclosure Form Factor	1U (16.1" in depth)		
Supported CPU	(1) AMD EPYC™ 4004 series processor		
Number of DIMM Slot	4		
Memory Type (max. capacity)	Follow the latest AMD EPYC™ 4004 Series Processor Memory POR DDR5 ECC UDIMM & non-ECC 5200 (128GB)		
Storage Controller	AMD B650E FCH		
Networking	(2) 1000Base-T (Intel® i210-AT) + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)		
PCI Expansion Slots	(1) PCIe Gen.5 x16 slot		
Power Supply	(1) 300W (@110V/220V _{AC}) CRPS 80+ GOLD		

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8016G40V4	(2) 3.5" SATA + (2) 2.5" SATA	(1) PCIe Gen.5 x16 slot	(2) 1000Base-T + (1) 1000Base-T (IPMI)



TYAN® S8040

Server Board



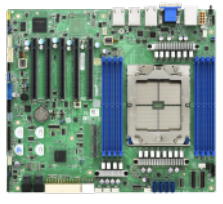
Single-socket server motherboard designed for server applications

- Processor - (1) AMD EPYC™ 8004 series processor
- Memory - (8) DDR5 DIMM slots
- Expansion - (4) PCIe 5.0 x16 slots, (2) NVMe M.2 slots, (2) PCIe 5.0 M.2 slots, (2) PCIe 5.0 M.2 slots
- Storage - (4) SATA 6Gb/s
- Network - (2) 10GBase-T ports (Intel® x710-AT2) (-2T SKU only), (2) 1000Base-T ports (2x Intel® i210-AT), (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)
- Video - ASPEED AST2600 Integrated Graphics
- Management - ASPEED AST2600 iBMC w/ iKVM
- Form Factor - ATX 12" x 9.6"

Standard Model	SATA	NVMe	10GbE	GbE	BMC
S8040GM4NE-2T	4	(2) M.2, (2) M.2	2	2	Yes
S8040GM2NE	4	(2) M.2, (2) M.2	-	2	Yes

TYAN® S8050

Server Board



Single-socket HPC server board for multiple GPU cards deployment

- Processor - (1) AMD EPYC™ 9004 series processor
- Memory - (8) DDR5 DIMM slots
- Expansion - (5) PCIe 5.0 x16 slots, (2) NVMe M.2 slots, (2) PCIe 5.0 M.2 slots, (2) PCIe 5.0 M.2 slots
- Storage - (12) SATA 6Gb/s
- Network - (2) 10GBase-T ports (Intel® x710-AT2) (-2T SKU only), (2) 1000Base-T ports (2x Intel® i210-AT), (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)
- Video - ASPEED AST2600 Integrated Graphics
- Management - ASPEED AST2600 iBMC w/ iKVM
- Form Factor - CEB 12" x 10.5"

Standard Model	SATA	NVMe	10GbE	GbE	BMC
S8050GM4NE-2T	12	(2) M.2, (2) M.2	2	2	Yes
S8050GM2NE	12	(2) M.2, (2) M.2	-	2	Yes

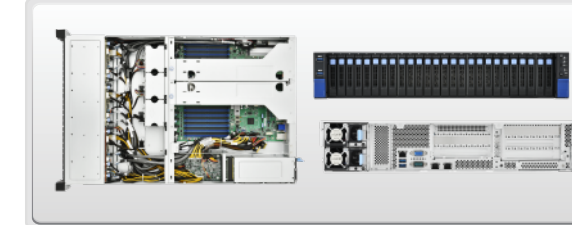
TYAN® TS70A-B8056



80 PLUS PLATINUM 80 PLUS PLATINUM
2U1S server platform for high IOPs cloud storage applications

Model Number	TS70A-B8056		
Enclosure Form Factor	2U (27.56" in depth)		
Supported CPU	(1) AMD EPYC™ 9004 series processor		
Number of DIMM Slot	24		
Memory Type (max. capacity)	Follow the latest AMD EPYC™ 9004 Processor Memory POR Registered (3DS) DDR5 4800/3600 (3,072GB)		
Storage Controller	AMD EPYC 9004		
Networking	(2) 10GBase-T (Intel® x710-AT2) + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)		
PCI Expansion Slots	(1) PCIe 5.0 x8 slots (via risers) + (1) OCP v3.0 LAN mezzanine slot + (2) PCIe 4.0 x4 NVMe M.2 slots		
Power Supply	(1+1) 1,600W (@220V _{AC}) CRPS 80+ Platinum, (1+1) 1,600W (@220V _{AC}) CRPS 80+ Titanium (-HE sku)		

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8056T70AE26HR-2T	(26) 2.5" hot-swap U.2	(1) PCIe 5.0 x8 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B8056T70AE26HR	(26) 2.5" hot-swap U.2	(1) PCIe 5.0 x8 + (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T (IPMI)
B8056T70AE26HR-2T-HE	(26) 2.5" hot-swap U.2	(1) PCIe 5.0 x8 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B8056T70AE26HR-HE	(26) 2.5" hot-swap U.2	(1) PCIe 5.0 x8 + (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T (IPMI)



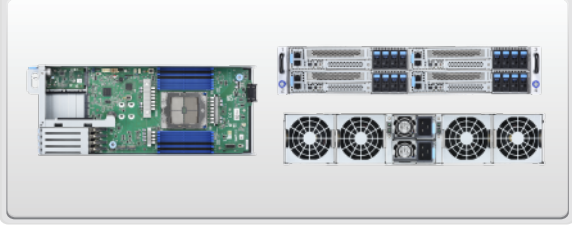
TYAN® TD76-B8058



80 PLUS TITANIUM
2U4N front I/O server platform for high-density cloud server deployment

Model Number	TD76-B8058		
Enclosure Form Factor	2U (29.92" in depth)		
Supported CPU	(1) AMD EPYC™ 9004 series processor (per node)		
Number of DIMM Slot	16 (per node)		
Memory Type (max. capacity)	Follow the latest AMD EPYC™ 9004 Processor Memory POR Registered (3DS) DDR5 4800/3600 (2,048GB)		
Storage Controller	AMD EPYC 9004		
Networking	(1) 1000Base-T (Intel® i210-AT) + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG) (per node)		
PCI Expansion Slots	(1) PCIe 5.0 x16 slot (via riser) + (1) OCP v3.0 LAN mezzanine slot + (2) PCIe 4.0 x4 NVMe M.2 slots (per node)		
Power Supply	(1+1) 2,700W (@220V _{AC}) CRPS (per system) 80+ Titanium		

Standard Model	# Storage Bay(per node)	# PCIe Slots (per node)	Networking (per node)
B8058T76X4-270TE4HR	(4) hot-swap E.1.s	(1) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T + (1) 1000Base-T (IPMI)



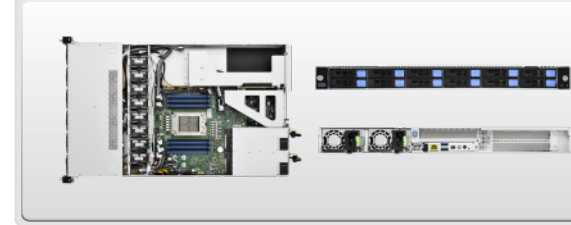
TYAN® GC73A-B8046



80 PLUS TITANIUM
1U1S server platform for mainstream cloud applications

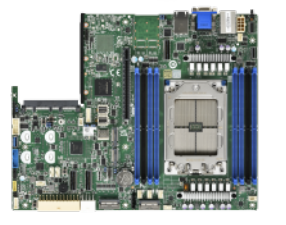
Model Number	GC73A-B8046		
Enclosure Form Factor	1U (28.74" in depth)		
Supported CPU	(1) AMD EPYC™ 8004 series processor		
Number of DIMM Slot	12		
Memory Type (max. capacity)	Follow the latest AMD EPYC™ 8004 Processor Memory POR Registered DDR5 4800/3600 (1,152GB)		
Storage Controller	AMD EPYC 8004		
Networking	(1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)		
PCI Expansion Slots	(1) FH/FUD/W + (1) FH/HL PCIe 5.0 x16 slots + (2) PCIe 3.0 x2 NVMe M.2 slots		
Power Supply	(1+1) 1,300W (@220V _{AC}) CRPS 80+ Titanium		

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8046GT3AE12HR	(12) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (2) M.2	(1) 1000Base-T (IPMI)



TYAN® S8047

Server Board



Single-socket server motherboard designed for CSP server applications

- Processor - (1) AMD EPYC™ 8004 series processor
- Memory - (8) DDR5 DIMM slots
- Expansion - (1) PCIe 5.0 x16 slots, (1) OCP v3.0 mezz. Slot, (2) NVMe M.2 slots, (5) PCIe 5.0 M.2 slots
- Storage - (8) SATA 6Gb/s via (2) M.2, (2) M.2
- Network - (2) 25GBase-CR SFP28 (Broadcom BCM57502) (-2V SKU only), (2) 1000Base-T ports (2x Intel® i210-AT), (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)
- Video - ASPEED AST2600 Integrated Graphics
- Management - ASPEED AST2600 iBMC w/ iKVM
- Form Factor - ATX 12" x 9.6"

Standard Model	SATA	NVMe	10GbE	GbE	BMC
S8047GM4NE-2V	8	(5) M.2, (2) M.2	2	2	Yes
S8047GM2NE	8	(5) M.2, (2) M.2	-	2	Yes

TYAN® S8016

Server Board



Cost-Effective motherboard for CSP deployment

- Processor - (1) AMD EPYC™ 4004 series processor
- Memory - (4) DDR5 DIMM slots
- Expansion - (1) PCIe 5.0 x16 slot, (1) PCIe 4.0 x8 slot (w/ x4 link), (1) PCIe 4.0 x4 slot, (2) NVMe M.2 slots
- Storage - (4) SATA 6Gb/s
- Network - (2) 1000Base-T ports (2x Intel® i210-AT), (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)
- Video - ASPEED AST2600 Integrated Graphics
- Management - ASPEED AST2600 iBMC w/ iKVM
- Form Factor - Micro-ATX 9.6" x 9.6"

Standard Model	SATA	NVMe	GbE	BMC	Audio
S8016AGM2NR	4	(2) M.2	2	Yes	2.1 Channel HD