



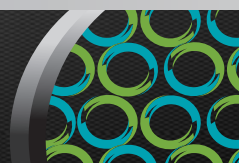
Transport & Tomcat Solutions

AMD EPYC™ / Ryzen™ Processor



AMD  AMD 
EPYC RYZEN

World Class Server Platforms





Next Generation Server Architecture

AMD EPYC™ 9004 Series CPUs



Workload Performance Leadership

Raising the bar yet again for workload performance, 4th Gen AMD EPYC™ processors can help IT professionals everywhere excel.

Performance + Efficiency are the new metrics for success in IT. Servers powered by EPYC 9004 CPUs can deliver faster time to results, helping provide more and better insights for decision making, driving better business outcomes. AMD EPYC CPUs – performant, efficient, on time.

Efficient: With EPYC 9004 CPUs IT professional can use ~47% fewer servers to get the job done helping data centers be more energy efficient, the proverbial “do more with less” come true. What is “Less”? Less is not just one thing. Comparing 2P 24 core to 24 core competitive processor estimates: less is 20% fewer servers driving 11% reduced power demands, resulting in 10 metric tons less CO2 generation per year, all while delivering the same level of performance.

Latest Technology: The 9004 Series EPYC CPUs amplifies the AMD history of x86 architecture innovations and record-breaking performance with next generation 5nm technology as well as introducing support for high performant DDR5 DIMMs and fast PCIe® Gen 5 I/O. EPYC 9004 CPUs support 12 memory channels with 2 DIMMs/channel capability,

delivering the resources needed for memory hungry AI, ML, HPC, and large in-memory computations. These EPYC CPUs also uniquely provide 128 PCIe5 lanes in a 1 socket server and up to an astounding 160 PCIe5 lanes in 2 socket servers. This enables the high performant demands of today's AI and ML applications and the increasing use of accelerators, GPUs, FPGAs and high capacity LAN cards natively with 4th Gen EPYC CPUs' high PCIe5 lane counts delivering 4X the IO throughput of the competition.

Performance Leadership: EPYC processors have a history of delivering world record performance and winning enterprise efficiency, while helping optimize IT budget and advancing energy efficiency. 4th Gen EPYC processors are expected to build on that history, with eleven two-socket and two one-socket EPYC 9004 series reference configurations tested are estimated to have higher SPECrate@2017_int_base scores than the best 2P score for the competitor's latest generation of CPUs.

Results Oriented: From print/file to databases and analytics, to HCI, HPC (now including AVX512 support), AI and machine learning, EPYC 9004 powered servers deliver faster time to results with exceptional energy efficiency. AMD EPYC 4th Gen processors deliver out of the box performance – with up to an estimated 30% more performance per watt for 64 core processors gen over gen, capable of supporting up to 50% more memory channels than any competitive x86 server CPU, and providing up to 2x the PCIe lanes and 2x the throughput of PCIe4 lanes, for up to 4x the IO capability of the competition. AMD continues its leading-edge security innovation, providing physical and virtual security features by intent and design - in the cloud and on-prem with confidential computing leadership.

TYAN Brand Lines

Tyan is pleased to announce a new line of server barebones and motherboards designed to suit the needs of the channel and our system integration partners.

Transport and Tomcat products spanning four product segments:

- SX** – Storage
- HX** – HPC
- CX** – Cloud
- EX** – Embedded

Tyan continually develops a roadmap full of innovative new products. Check our website at www.tyan.com to stay up to date with our latest product offerings.

Transport



The Tyan **Transport** series is a line of server barebones based on AMD's latest technology including the AMD EPYC™ Family of Processors. These barebones are designed to offer best in class server technology to our customers. Tyan Transport server barebones are built to inventory and are warehoused locally in the USA.

Tomcat



Tyan's **Tomcat** line of motherboards are designed to pack the latest of AMD's world-class server technology into off-the-shelf commodity chassis, providing an outstanding server building block for the widest possible range of applications. Like Tyan's Transport server barebones, these motherboards are warehoused in the USA and are readily available in the channel.

Transport CX HG68-B8016

AMD
RYZEN



nvm
EXPRESS

DDR5

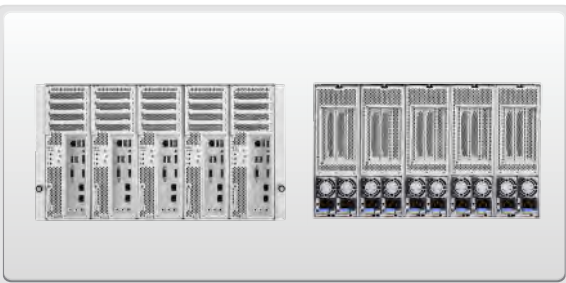
PCIe 5.0



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 Ryzen 7000 series processor (per node)
Number of DIMM Slot	4 (per node)
Memory Type (max. capacity)	Follow the latest AMD Ryzen 7000 Processor Memory POR DDR5 ECC UDIMM & non-ECC 5200 (128GB)
Storage Controller	AMD B650 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 (per node)
Power Supply	(1+1) 800W (@110V/220V _{AC}) CRPS (per node)

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)



Transport HX FT65T-B8050

AMD
EPYC



nvm
EXPRESS

DDR5

PCIe 5.0



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
B8050F65TV8E2H-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 (1) 1000Base-T (IPMI)
B8050F65TV8E2H-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 (1) 1000Base-T (IPMI)
B8050F65TV8E2H-G	(8) 3.5" hot-swap SATA + (2) 2.5" hot-swap U.2	(3) hot-swap 12038	(2) 1000Base-T (1) 1000Base-T (IPMI)



Transport CX TD76-B8058

AMD
EPYC



nvm
EXPRESS

DDR5

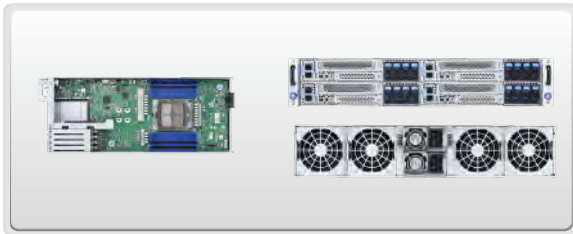
PCIe 5.0



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)

Standard Model	# Storage Bay (per node)	# PCIe Slots (per node)	Networking (per node)
B8058T76X4-270TE4HR	(4) hot-swap E1.s	(1) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T + (1) 1000Base-T (IPMI)



Transport SX TS70A-B8056

AMD
EPYC



nvm
EXPRESS

DDR5

PCIe 5.0



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 4800/3600/4000 (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

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)



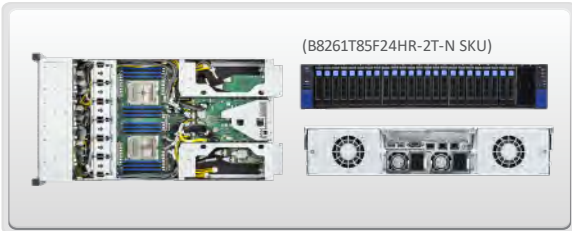
Transport HX TN85-B8261



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

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8261T85E8HR-2T-N	(8) 2.5" hot-swap U.2	(6) PCIe 5.0 x16	(2) 10GBase-T + (1) 1000Base-T (IPMI)



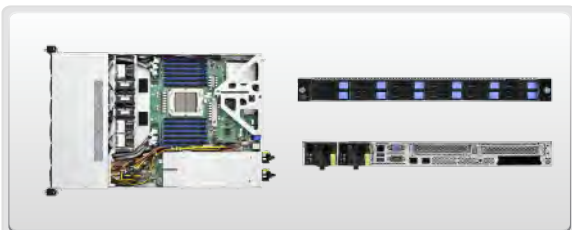
Transport CX GC68C-B8056



1U2S 4-GPU server platform designed for HPC/GPGPU applications

Model Number	GC68C-B8056
Enclosure Form Factor	1U (26.77" 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	(2) PCIe 5.0 x16 slots (via risers) + (1) OCP v3.0 LAN mezzanine slot + (2) PCIe 4.0 NVMe M.2 slots
Power Supply	(1+1) 860W RPSU

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8056G68CE12HR-2T	(12) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B8056G68CE12HR	(12) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T (IPMI)



Transport SX GX40-B8016

AMD
RYZEN



nvm
EXPRESS

DDR5

PCIe 5.0



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 Ryzen 7000 series processor
Number of DIMM Slot	4
Memory Type (max. capacity)	Follow the latest AMD Ryzen 7004 Processor Memory POR DDR5 ECC UDIMM & non-ECC 5200 (512GB)
Storage Controller	AMD B650 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

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



Transport CX GC73A-B8046

AMD
EPYC



nvm
EXPRESS

DDR5

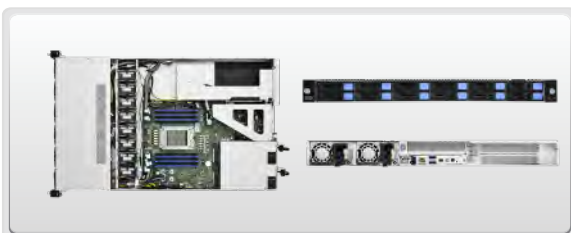
PCIe 5.0



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) PCIe 5.0 x16 slot +(1) PCIe 5.0 x16 slot + (2) PCIe 3.0 x2 NVMe M.2 slots
Power Supply	(1+1) 1,300W (@220V _{AC}) RPSU

Standard Model	# Storage Bay	# PCIe Slots	Networking
B8046G73AE12HR	(12) 2.5" hot-swap U.2 (up to 4x SATA)	(2) PCIe 5.0 x16 + (2) M.2	(1) 1000Base-T (IPMI)



Tomcat CX 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 connectors for U.2 • (2) PCIe 5.0 M.2 connectors for U.2
Storage	• (4) SATA 6Gb/s
Network	• (2) 10GbBase-T (Intel® x710-AT2) (-2T SKU only) • (2) 1000Base-T (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 8x + (2) M.2 4x + (2) M.2	2	2	Yes
S8040GM2NE	4	(2) M.2 8x + (2) M.2 4x + (2) M.2	-	2	Yes

Tomcat CX 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 connectors for U.2 • (2) PCIe 5.0 M.2 connectors for U.2
Storage	• (12) SATA 6Gb/s
Network	• (2) 10GbBase-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 8x + (2) M.2 4x + (2) M.2	2	2	Yes
S8050GM2NE	12	(2) M.2 8x + (2) M.2 4x + (2) M.2	-	2	Yes

Tomcat CX 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 slot • (1) OCP v3.0 mezz. slot • (2) NVMe M.2 slots • (5) PCIe 5.0 M.2 connectors for U.2
Storage	• (8) SATA 6Gb/s via (2) M.2 x4 connectors
Network	• (2) 25GbBase-CR SFP28 (Broadcom BCM57502) (-2V SKU only) • (2) 1000Base-T (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	25GbE	GbE	BMC
S8047GM4NE-2V	8	(5) M.2 8x + (2) M.2	2	2	Yes
S8047GM2NE	8	(5) M.2 8x + (2) M.2	-	2	Yes

Tomcat CX S8016

Server Board



Cost-Effective motherboard for CSP deployment

Processor	• (1) AMD Ryzen 7000 series processor
Memory	• (4) DDR5 DIMM slots
Expansion	• (1) PCIe 5.0 x16 slot
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



MITAC COMPUTING TECHNOLOGY CORP.

USA

39860 Eureka Drive,
Newark, CA 94560
United States
TEL: +1-510-651-8868
Pre-Sales: +1-510-651-8868
FAX: +1-510-651-7688
Email: Sales_america@tyan.com

Taiwan

No.200, Wen Hwa 2nd Rd.,
Kuei Shan Dist., Taoyuan City 33383, Taiwan
TEL: +886-3-3275988 #7456 Johnson Chang
FAX: +886-3-327-6312
Email: johnson.chang@tyan.com.tw

China

No.213 Jiang Chang San Road,
Zha Bei District, Shanghai (200436)
Shanghai TEL: +86-021-61431188 #1361
Beijing TEL: +86-010-62381108 #2485 & #2013
Email: chinats@mic.com.tw

Japan

Yasuda Shibauro 2nd Building 3F Kaigan 3-chome 2-12,
Minato-ku, Tokyo 108-0022, Japan
TEL: +81-3-3769-8311
FAX: +81-3-3769-8328
Email: TYAN@mitac.co.jp

EMEA

Tewkesbury, Gloucestershire
England
Phone: +31-6-47442979 Johnny Wang
Email: johnny.cy.wang@tyan.com



www.tyan.com

Please contact your sales representative or TYAN authorized distributors.