

Workload-Optimized Performance and Power Efficiency Gains

Intel® Xeon® 6 does it all



Performance for today's acceleration and AI needs and scale-out to maximize investment, consolidate & save power

Trusted performance. Exceptional efficiency.
Meet performance and density goals with a broad portfolio. Intel® Xeon® 6 gives you a single platform with processors that range from high AI performance to exceptional efficiency and cloud scalability.

Intel® Xeon® 6 introduces the best processors to meet your diverse performance and efficiency requirements. A new class of Efficient-cores (E-cores) delivers high core density and exceptional performance per watt, offering distinct advantages for cloud-scale workloads that demand high throughput. Performance-cores (P-cores) excel at the widest range of workloads and give you better AI performance than any other CPU. E-cores and P-cores have compatible architecture with a shared software stack and the largest ecosystem of hardware and software vendors, so you can find solutions to match any business need.



Designed for AI with trusted performance and exceptional efficiency

The latest 5th Gen Intel® Xeon® Processors, codenamed Emerald Rapids, share an

architectural platform with the previous generation CPU, designed to deliver significant improvements in performance, power efficiency, and security across a broad spectrum of data center workloads. With up to 64 cores, an expanded shared cache, increased UPI, and support for higher DDR5 memory speeds, along with 80 lanes of PCIe Gen 5 and compatibility with CXL types 1 and 2, these processors achieve remarkable performance per watt gains across various workloads. The 5th Gen Intel® Xeon® Processors excel in AI, database, networking, and HPC applications, boasting enhanced security technologies and Total Cost of Ownership (TCO) benefits. Importantly, they remain software and platform compatible with its predecessor, allowing customers to streamline testing and validation when deploying new systems.

Leverage with 5th Gen Intel® Xeon® Processors, customers can benefit from:

Grow and excel with workload-optimized performance:

With faster memory, enhanced I/O, and improved application performance, the 5th Gen Intel® Xeon® Processors can drive ROI, offering up to a 21% average performance gain at the same TDP compared to the previous generation.

Designed for AI:

Specifically crafted for AI applications, the 5th Gen Intel® Xeon® Processors boast built-in Intel® AI Engines - "Intel® Advanced Matrix Extensions (Intel® AMX)," which substantially enhances deep learning training, inference, and fine-tuning on models with up to 20 billion parameters.

Energy-Efficient Computing:

The 5th Gen Intel® Xeon® Processors achieve socket power savings, delivering more performance per core to lower costs and reduce carbon footprint with energy-efficient compute.

Trusted, Quality Solutions, and Security Features:

Customers can seamlessly upgrade from the previous generation to 5th Gen Intel® Xeon® Processors, maximizing uptime and operational efficiency with industry-leading quality, enhanced telemetry capabilities, and rigorous testing.

The 5th Gen Intel® Xeon® Processors also have the most built-in accelerators of any CPU on the market to accelerate the greatest range of workloads, including Intel® Advanced Matrix Extensions (Intel® AMX), Intel® Data Streaming Accelerator (Intel® DSA), Intel® QuickAssist Technology (Intel® QAT), Intel® Dynamic Load Balancer (Intel® DLB), Intel® In-Memory Analytics Accelerator (Intel® IAA), and Intel® Volume Management Device (Intel® VMD).

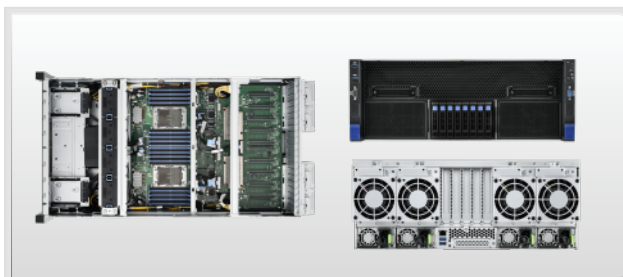
Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary.



TYAN® FT83B-B7149



4U2S GPU server platform designed for various parallel workloads



Model Number	FT83B-B7149
Enclosure Form Factor	4U (32.68" in depth)
Supported CPU	(2) Intel® Xeon® 6 Generation
Chipset	Broadcom PEX89104
Number of DIMM Slot	32 / 16+16
Memory Type (max. capacity)	Supporting up to 4TB RDIMM DDR5-6400 memory
RAID Support	RAID 0, 1, 10, 5 (Intel® VROC 8.6)
Networking	(1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)
PCI Expansion Slots	(11) PCIe 5.0 x16 slots + (3) OCP v3.0 LAN mezzanine slot + (2) PCIe 4.0 x4 NVMe M.2 slots
Power Supply	(2+2) 2,700W (@220Vac) RPSU 80+ Titanium

Standard Model	# Storage Bay	# PCIe Slots	Networking
B7149F83BE8HR-N	(8) 2.5" hot-swap U.2	(11) PCIe 5.0 x16 + (2) M.2	(1) 1000Base-T (IPMI)
B7149F83BE8HR-G	(8) 2.5" hot-swap U.2	(11) PCIe 5.0 x16 + (2) M.2	(1) 1000Base-T (IPMI)

TYAN® GC73A-B5660

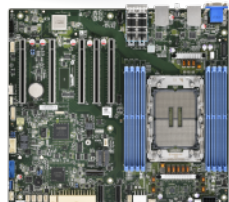


1U1S server platform designed for CSP compute/storage applications

Model Number	GC73A-B5660
Enclosure Form Factor	1U (28.9" in depth)
Supported CPU	(1) Intel® Xeon® 6 Generation
Chipset	N/A
Number of DIMM Slot	16
Memory Type (max. capacity)	Supporting up to 2TB RDIMM/LRDIMM DDR5-6400 memory
Storage Controller	N/A
RAID Support	RAID 0, 1, 10, 5 (Intel® VROC 8.6)
Networking	(1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)
PCI Expansion Slots	(2) PCIe 5.0 x16 slots + (2) OCP v3.0 LAN mezzanine slots + (1) PCIe 4.0 x4 NVMe M.2 slots
Power Supply	(1+1) 1,300W (@220Vac) CRPS 80+ Titanium

Standard Model	# Storage Bay	# PCIe Slots	Networking
B6660G7AE12HR	(12) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (2) M.2	(1) 1000Base-T (IPMI)

TYAN® S5662



Single-socket HPC server board for multiple GPU cards deployment

Processor	• (1) Intel® Xeon® 6 Generation
Memory	• (8) DDR5 DIMM slots
Expansion	• (5) PCIe 5.0 x16 slots • (2) NVMe M.2 slot
Storage	• (3) M.2 NVMe slots for U.2
Network	• (2) 25G SFP28 ports (Broadcom® 57502) • (2) 1000Base-T port (Intel® i210-AT) / share NIC for BMC
Video	• ASPEED AST2600 Integrated Graphics
Management	• ASPEED AST2600 iBMC w/ iKVM
Form Factor	• CEB 12" x 10.5"

Standard Model	SATA	NVMe	2.5GbE	GbE	Audio
S662GM3NRE-2V	-	(3) M.2 NVMe + (2) M.2	2	2	Yes
S662GMNRE	-	(3) M.2 NVMe + (2) M.2	-	2	Yes



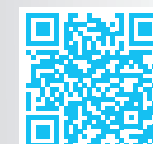
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Intel® Server System

Intel® Xeon® 6 processors / 5th Gen Intel® Xeon® Scalable Processors



TYAN® TS70-B7136

Intel XEON 7nm Core nvm EXPRESS DDR5 PCIe 5.0

80 PLUS PLATINUM 80 PLUS TITANIUM

2U2S server platform for cost-effective cloud storage applications

Model Number: TS70-B7136

Enclosure Form Factor: 2U (27.56" in depth)

Supported CPU: (2) 4th / 5th Gen. Intel® Xeon® Scalable Processor

Chipset: Intel® C741 PCH

Number of DIMM Slot: 16 / 8+8

Memory Type (max. capacity): Follow the latest 4th / 5th Gen. Intel® Xeon® Scalable Processor Memory POR*
*: Actual memory speed depends on populated CPU models

Storage Controller: Intel® C741 PCH

RAID Support: RAID 0, 1, 10, 5 (Intel® VROC 8.0)

Networking: (2) 10GBase-T (Intel® x710-AT2) ports + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)

PCI Expansion Slots: (2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 slots (via risers) + (1) OCP v3.0 LAN mezzanine slot + (2) PCIe 4.0 x4 NVMe M.2 slots

Power Supply: (1+1) 1,200W (@220VAC) CRPS 80+ Platinum / (1+1) 1,300W (@220VAC) CRPS 80+ Titanium (-HE sku)

Standard Model	# Storage Bay	# PCIe Slots	Networking
B7136T70V10E4HR-2T / 2T-HE	(12) 3.5" hot-swap SATA (up to 4x U.2) + (2) 2.5" hot-swap SATA (@ rear)	(2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B7136T70V10E4HR / -HE	(12) 3.5" hot-swap SATA (up to 4x U.2) + (2) 2.5" hot-swap SATA (@ rear)	(2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T (IPMI)

TYAN® TX88-B5652

Intel XEON 7nm Core nvm EXPRESS DDR5 PCIe 5.0

80 PLUS TITANIUM

2U1S server platform designed for warm data storage

Model Number: TX88-B5652

Enclosure Form Factor: 2U (34.65" in depth)

Supported CPU: (1) 4th / 5th Gen. Intel® Xeon® Scalable Processor

Chipset: Intel® C741 PCH

Number of DIMM Slot: 8

Memory Type (max. capacity): Follow the latest 4th / 5th Gen. Intel® Xeon® Scalable Processor Memory POR*
*: Actual memory speed depends on populated CPU models

Storage Controller: Intel® C741 PCH

RAID Support: RAID 0, 1, 10, 5 (Intel® VROC 8.6)

Networking: (1) 1000Base-T (Intel® i210-AT) + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)

PCI Expansion Slots: (3) PCIe 5.0 x16 + (1) PCIe 5.0 x8 slots + (1) PCIe 3.0 x4 NVMe M.2 slot

Power Supply: (1+1) 1,300W (@220VAC) PSU 80+ Titanium

Standard Model	# Storage Bay	# PCIe Slots	Networking
B5652T88V24E2HR	(2) 2.5" hot-swap U.2 + (2) 3.5" hot-swap SATA	(3) PCIe 5.0 x16 + (1) PCIe 5.0 x8 + (1) M.2	(1) 1000Base-T + (1) 1000Base-T (IPMI)

TYAN® GX40-B5573

Intel XEON 7nm Core 8 nvm EXPRESS DDR5 PCIe 5.0

80 PLUS GOLD

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

Model Number: GX40-B5573

Enclosure Form Factor: 1U (26.77" in depth)

Supported CPU: (1) Intel® E-2400 / Pentium Gold G7400 (ADL-S) Processor

Chipset: Intel® C266 PCH

Number of DIMM Slot: 4

Memory Type (max. capacity): Follow the latest Intel® E-2400 / Pentium Gold G7400 (ADL-S) Processor Memory POR*
*: Actual memory speed depends on populated CPU models

Storage Controller: Intel® C266 PCH

RAID Support: RAID 0, 1, 10, 5 (Intel® VROC 8.6)

Networking: (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)

PCI Expansion Slots: (1) PCIe 5.0 x16 slot + (1) PCIe 4.0 x8 slot (w/ x4 link) + (1) PCIe 3.0 x4 slot (w/ x2 link) + (1) M.2 slot + (1) PCIe 4.0 x4 NVMe M.2 slots

Power Supply: (1) 300W RPSU 80+ GOLD

Standard Model	# Storage Bay	# PCIe Slots	Networking
B5573GX40V4	(2) Fixed 3.5" SATA + (2) Fixed 2.5" SATA	(1) PCIe 5.0 x16 + (1) PCIe 4.0 x8 + (1) PCIe 3.0 x8 + (2) M.2	(1) 1000Base-T (IPMI)

TYAN® S7130

Server Board

Intel XEON 7nm Core nvm EXPRESS DDR5 PCIe 5.0

Dual-socket mainstream server board in EEB form factor

Processor: (2) 4th / 5th Gen. Intel® Xeon® Scalable Processor

Memory: (8+8) DDR5 DIMM slots

Expansion: (3) PCIe 5.0 x16 slots (2) PCIe 5.0 x8 slots

Storage: (10) SATA 6Gb/s

Network: (2) 10GBase-T ports (Intel® x710-AT2) (-2T SKU) (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)

Video: ASPEED AST2600 Integrated Graphics

Management: ASPEED AST2600 iBMC w/ iKVM

Form Factor: EEB 12" x 13"

Standard Model	SATA	NVMe	10GbE	BMC
S7130GM2NRE-2T	10	(1) M.2	2	Yes
S7130GMRE	10	(1) M.2	-	Yes

TYAN® S5652

Server Board

Intel XEON 7nm Core 60 nvm EXPRESS DDR5 PCIe 5.0

Single-socket HPC server board for multiple GPU cards deployment

Processor: (1) 4th / 5th Gen. Intel® Xeon® Scalable Processor

Memory: (8) DDR5 DIMM slots

Expansion: (4) PCIe 5.0 x16 slots (3) PCIe 5.0 x8 slots (1) PCIe 5.0 M.2 slot (1) NVMe M.2 slot

Storage: (6) SATA 6Gb/s

Network: (2) 10GBase-T ports (Intel® x550-AT2) (-2T SKU only) (1) 1000Base-T port (Intel® 210-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
S5652AGM3NRE-2T	6	(1) M.2	2	1	Yes
S5652AGMRE	6	(1) M.2	-	1	Yes

TYAN® TS70A-B7136

Intel XEON 7nm Core nvm EXPRESS DDR5 PCIe 5.0

80 PLUS PLATINUM 80 PLUS TITANIUM

2U2S server platform for high IOPs cloud storage applications

Model Number: TS70A-B7136

Enclosure Form Factor: 2U (27.56" in depth)

Supported CPU: (2) 4th / 5th Gen. Intel® Xeon® Scalable Processor

Chipset: Intel® C741 PCH

Number of DIMM Slot: 16 / 8+8

Memory Type (max. capacity): Follow the latest 4th / 5th Gen. Intel® Xeon® Scalable Processor Memory POR*
*: Actual memory speed depends on populated CPU models

Storage Controller: Intel® C741 PCH

RAID Support: RAID 0, 1, 10, 5 (Intel® VROC 8.6)

Networking: (2) 10GBase-T (Intel® x710-AT2) ports + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)

PCI Expansion Slots: (2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 slots (via risers) + (1) OCP v3.0 LAN mezzanine slot + (2) PCIe 4.0 x4 NVMe M.2 slots

Power Supply: (1+1) 1,200W (@220VAC) CRPS 80+ Platinum / (1+1) 1,300W (@220VAC) CRPS 80+ Titanium (-HE sku)

Standard Model	# Storage Bay	# PCIe Slots	Networking
B7136T70AV12E8HR-2T	(12) 2.5" hot-swap SATA + (8) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B7136T70AV12E8HR	(12) 2.5" hot-swap SATA + (8) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 + (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T (IPMI)
B7136T70AV12E8HR-2T-HE	(12) 2.5" hot-swap SATA + (8) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B7136T70AV12E8HR	(12) 2.5" hot-swap SATA + (8) 2.5" hot-swap U.2	(2) PCIe 5.0 x16 + (2) PCIe 5.0 x8 + (1) PCIe 5.0 x4 + (1) OCP v3.0 mezz. + (2) M.2	(1) 1000Base-T (IPMI)

TYAN® TD76-B5658

Intel XEON 7nm Core 64 nvm EXPRESS DDR5 PCIe 5.0

80 PLUS TITANIUM

2U4-node server platform designed for high-density cloud server deployment

Model Number: TD76-B5658

Enclosure Form Factor: 2U (29.92" in depth)

Supported CPU: (1) 4th / 5th Gen. Intel® Xeon® Scalable Processor (per node)

Chipset: Intel® C741 PCH

Number of DIMM Slot: 16 (per node)

Memory Type (max. capacity): Follow the latest 4th / 5th Gen. Intel® Xeon® Scalable Processor Memory POR*
*: Actual memory speed depends on populated CPU models

Storage Controller: Intel® C741 PCH

RAID Support: RAID 0, 1, 10, 5 (Intel® VROC 8.6)

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 + (1) OCP v3.0 LAN mezzanine slot + (2) PCIe 3.0 x4 NVMe M.2 slot (per node)

Power Supply: (1+1) 2,700W (@220VAC) CRPS PSU (per system) 80+ Titanium

Standard Model	# Storage Bay (per node)	# FAN (per system)	Networking (per node)
B5658T76X4-270TE4HR	(4) easy-swap E1.S	(4) hot-swap 8056	(1) 1000Base-T + (1) 1000Base-T (IPMI)

TYAN® GC79A-B7132

Intel XEON 7nm Core 64 nvm EXPRESS DDR5 PCIe 5.0

80 PLUS PLATINUM 80 PLUS TITANIUM

1U2S server platform with maximum memory capacity for high-performance in-memory

Model Number: GC79A-B7132

Enclosure Form Factor: 1U (31.1" in depth)

Supported CPU: (2) 4th / 5th Gen. Intel® Xeon® Scalable Processor

Chipset: Intel® C741 PCH

Number of DIMM Slot: 32 / 16+16

Memory Type (max. capacity): Follow the latest 4th / 5th Gen. Intel® Xeon® Scalable Processor Memory POR*
*: Actual memory speed depends on populated CPU models

Storage Controller: Intel® C741 PCH

RAID Support: RAID 0, 1, 10, 5 (Intel® VROC 8.6)

Networking: (2) 10GBase-T (Intel® x710-AT2) or (2) 1000Base-T (2x Intel® i210-AT) ports + (1) 1000Base-T port dedicate for IPMI (Realtek® RTL8211FD-CG)

PCI Expansion Slots: (2) PCIe 5.0 x16 (via risers) + (1) OCP v3.0 LAN mezzanine slot + (2) PCIe 4.0 x4 NVMe M.2 slots

Power Supply: (1+1) 1,200W (@220VAC) CRPS 80+ Platinum / (1+1) 1,300W (@220VAC) CRPS 80+ Titanium (-HE sku)

Standard Model	# Storage Bay	# PCIe Slots	Networking
B7132G79AE12HR-2T	(12) 2.5" hot-swap U.2 (up to 4x SATA)	(2) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B7132G79AE12HR	(12) 2.5" hot-swap U.2 (up to 4x SATA)	(2) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B7132G79AE12HR-2T-HE	(12) 2.5" hot-swap U.2 (up to 4x SATA)	(2) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B7132G79AE12HR-HE	(12) 2.5" hot-swap U.2 (up to 4x SATA)	(2) PCIe 5.0 x16 + (1) OCP v3.0 mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)

TYAN® S5566

WS Board Embedded

Intel CORE 7nm Core 8 nvm EXPRESS

Embedded workstation motherboard in micro ATX form factor

Processor: (1) Intel® 12th / 14th Gen. Core™ i3/i5/i7/i9 Processor

Memory: (4) DDR4 SO-DIMM slots

Expansion: (1) PCIe 3.0 x16 slot (2) PCIe 3.0 x8 slots (w/ x4 link) (1) PCIe 3.0 x4 NVMe M.2 slot (3) SATA 6Gb/s

Storage: (6) SATA 6Gb/s

Network: (1) 2500Base-T port (Intel® i225-LM) (1) 1000Base-T port (Intel® i219-V)

Video: (3) Display port

Management: AMT Support

Form Factor: Micro ATX 9.6" x 9.6"

Standard Model	SATA	NVMe	2.5GbE	GbE	Audio
S5566AG2NR	6	(2) M.2	1	1	7.1 Channel HD

TYAN® S5567

Embedded

Intel CORE 7nm Core 8 nvm EXPRESS

Embedded motherboard in thin mini-ITX form factor

Processor: (1) Intel® 12th Gen. Core™ i3/i5/i7/i9 Processor

Memory: (2) DDR4 SO-DIMM slots

Expansion: (1) PCIe 3.0 x16 slot (1) PCIe 3.0 x4 NVMe M.2 slot

Storage: (3) SATA 6Gb/s

Network: (1) 2500Base-T port (Intel® i225-LM) (1) 1000Base-T port (Intel® i219-V)

Video: (2) Display port

Form Factor: Thin Mini-ITX 6.69" x 6.69"

Standard Model	SATA	NVMe	2.5GbE	GbE	Audio
S5567G2NR	3	(1) M.2	1	1	-