TYAN

GPU Computing Platforms

World Class Server Platforms
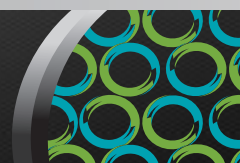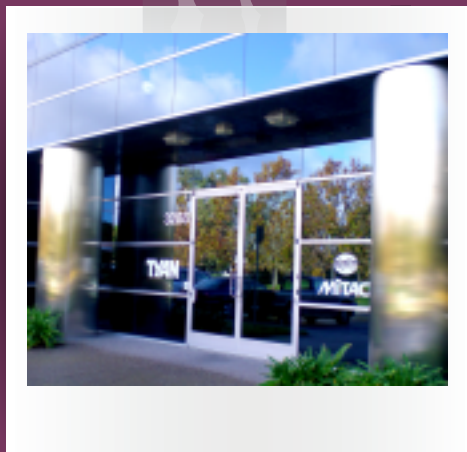
TYAN
World Class Server Platforms

Industry leading hardware manufacturer, providing servers, technical workstations, and supercomputing clusters through worldwide distribution channels.

◆ About TYAN

TYAN is a world class provider of server motherboards and server platforms. Founded in California's Silicon Valley in 1989, TYAN has been bringing innovation and reliability to the server industry for nearly 30 years. As a leading server manufacturer owned by MiTAC Computing Technology Corporation, TYAN is a core business unit of the MiTAC Group.

As a leading manufacturer, TYAN provides systems integrators and value added resellers with market leading products to build and customize their servers worldwide. By offering a full range of server products and accessories, TYAN enables customers to apply their expertise and bring value to their solutions. TYAN prides itself in supplying the channel with building block products.

Many customers have had their TYAN-based products recognized within their industries, covering a wide range of markets such as HPC, hyper-scale/data center, server storage and security appliances.

TYAN has locations spanning the globe, from North America to Asia Pacific and Europe, including R&D, distribution, local support, inventory and sales.

◆ TYAN Brand Lines

TYAN has a number of server product lines designed to suit a wide range of applications specially tailored to meet the needs of our channel and system integration partners.
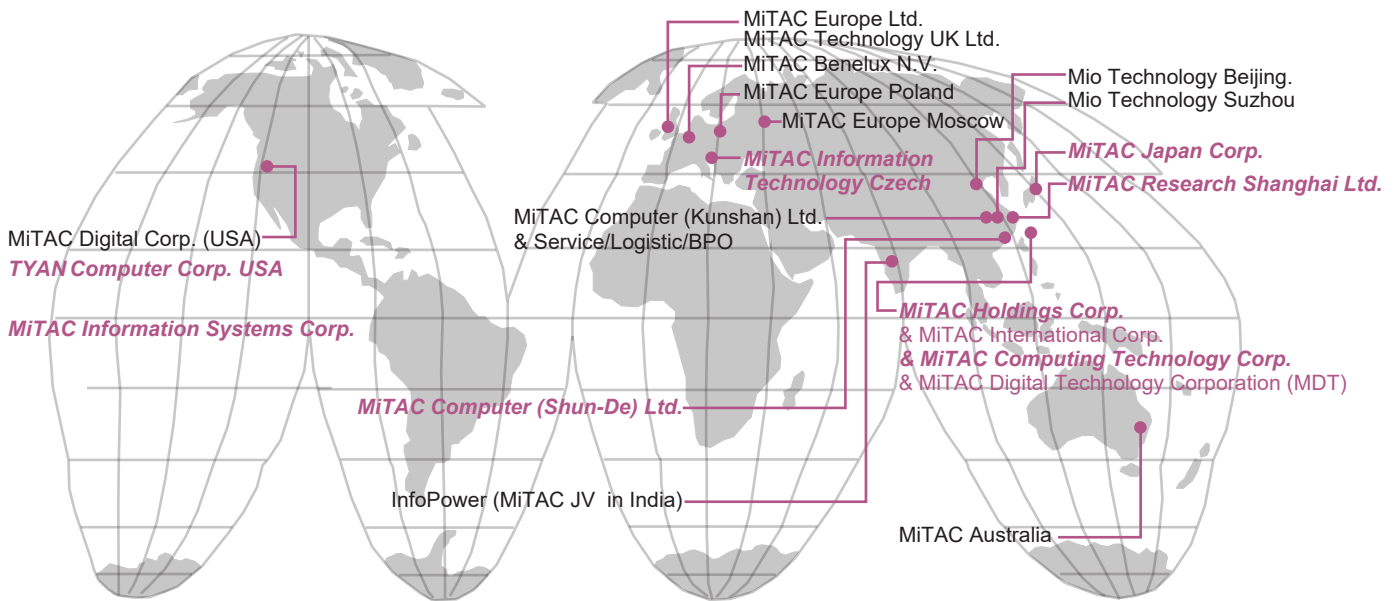
TYAN's Thunder、Tempest、Transport and Tomcat products span the following four segments:

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

TYAN is continually developing new servers. Check our website at www.tyan.com to stay up to date with our latest product offerings.

◆ MiTAC Global Presence & TYAN Branch Offices

MiTAC Europe Ltd.
MiTAC Technology UK Ltd.
MiTAC Benelux N.V.
MiTAC Europe Poland
MiTAC Europe Moscow

Mio Technology Beijing.
Mio Technology Suzhou

MiTAC Information Technology Czech

MiTAC Japan Corp.

MiTAC Research Shanghai Ltd.

MiTAC Computer (Kunshan) Ltd.
& Service/Logistic/BPO

MiTAC Digital Corp. (USA)
TYAN Computer Corp. USA

MiTAC Information Systems Corp.

MiTAC Holdings Corp.
& MiTAC International Corp.
& MiTAC Computing Technology Corp.
& MiTAC Digital Technology Corporation (MDT)

MiTAC Computer (Shun-De) Ltd.
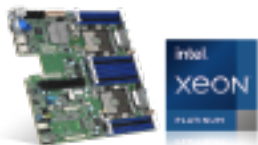
InfoPower (MiTAC JV in India)

MiTAC Australia

Thunder

- Server barebones based on Intel's latest technology including Intel® Xeon® Scalable Processors
- Designed to offer best-in-class server technology with remote management capability
- Built to inventory
- Warehoused in US, EU, and China

Tempest

- Motherboards based on Intel's latest world-class server technology
- Fits off-the-shelf (OTS), industry standard chassis
- Tested with the highest standards for design and quality
- Built to inventory
- Warehoused in US, EU, and China

Transport

- Server barebones based on AMD's latest ZEN architecture including the AMD EPYC processor
- Designed to offer best-in-class server technology with remote management capability
- Built to inventory
- Warehoused in US, EU, and China

Tomcat

- Motherboards based on AMD's latest ZEN server architecture
- Fits off-the-shelf (OTS), industry standard chassis
- Tested with the highest standards for design and quality
- Built to inventory
- Warehoused in US, EU, and China

Thunder HX
FT83A-B7129

intel XEON PLATINUM | 10nm | 40 Core | UPI Ultra Path Interconnect | nvm EXPRESS | PCIe 4.0

10 GPU

80 PLUS PLATINUM

4U2S 10-GPU server platform designed for various parallel workloads

Model Number	FT83A-B7129
Enclosure Form Factor	4U (32.68" in depth)
Supported CPU	(2) 3rd Gen. Intel® Xeon® Scalable Processor
Chipset	Intel® C621A PCH + (2) Broadcom PEX88096 PCIe Gen.4 switches
CPU Interconnect	(3) Intel® UPI 11.2/10.4 GT/s
Number of DIMM Slot	32/ (16+16)
Memory Type (max. capacity)	Follow latest 3rd Gen. Intel® Xeon® SP DDR4 Memory POR* *: Actual memory speed depends on populated CPU models
Storage Controller	Intel® C621A PCH (SATA 6Gb/s) Intel® VMD 2.0 (NVMe)
RAID Support	RAID 0, 1, 10, 5 (Intel® RSTe)
Networking	(1) IPMI
PCI Expansion Slots	(10) FH/10.5"L/DW PCIe Gen.4 x16 + (1) FH/HL PCIe Gen.4 x16 + (1) PCIe Gen.4 x16 OCP 3.0 mezz. + (2) NVMe M.2 (2280) slots
Power Supply	(3+1) 4,800W (@220VAC) hot-swap RPSU

Standard Model	# Storage Bay	# PCIe slots	Networking
B7129F83AV14E8HR-N	(12) 3.5"/2.5" hot-swap (SATA) + (10) 2.5" hot-swap (2 SATA+8 NVMe)	(11) PCIe Gen.4 slots + (1) OCP 3.0 mezz. + (2) M.2	(1) IPMI

Thunder HX
FT65T-B5642

intel **XEON** PLATINUM | 10nm | 40 Core | NVM EXPRESS | PCIe 4.0

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

Model Number	FT65T-B5642		
Enclosure Form Factor	Pedestal/4U (25.59" in depth)		
Supported CPU	(1) 3rd Gen. Intel® Xeon® Scalable Processor		
Chipset	Intel® C621A PCH		
CPU Interconnect	-		
Number of DIMM Slot	8		
Memory Type (max. capacity)	Follow latest 3rd Gen. Intel® Xeon® SP DDR4 Memory POR* *: Actual memory speed depends on populated CPU models		
Storage Controller	Intel® C621A PCH (SATA 6Gb/s) Intel® VMD 2.0 (NVMe)		
RAID Support	RAID 0, 1, 10, 5 (Intel® RSTe)		
Networking	(Opt.) (2) 10GbE + (1) GbE + (1) IPMI		
PCI Expansion Slots	(2) PCIe Gen.4 x16 + (2) PCIe Gen.4 x8 + (1) PCIe Gen.4 x4 + (2) PCIe Gen.3 x2 NVMe M.2 (22110/2280) slots		
Power Supply	(1) 2,000W (@220VAC) ATX PSU		
Standard Model	**# Storage Bay**	**# System Fan**	**Networking**
B5642F65TV8E2H-G	(8) 3.5"/2.5" hot-swap (SATA) + (2) 2.5" hot-swap (SATA/NVMe)	(3) 12038	(1) GbE + (1) IPMI
B5642F65TV8E2H-2T-N	(8) 3.5"/2.5" hot-swap (SATA) + (2) 2.5" hot-swap (SATA/NVMe)	(3) 12038 + (2) 8038	(2) 10GbE + (1) GbE+ (1) IPMI

Thunder HX
TS75-B7122

intel **XEON** PLATINUM | 10nm | 40 Core | UPI Ultra Path Interconnect | NVM EXPRESS | PCIe 4.0
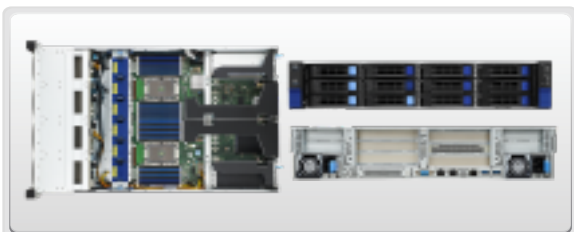
80 PLUS PLATINUM
2U2S server platform with maximum memory support for virtualization applications

Model Number	TS75-B7122		
Enclosure Form Factor	2U (29.53" in depth)		
Supported CPU	(2) 3rd Gen. Intel® Xeon® Scalable Processor		
Chipset	Intel® C621A PCH		
CPU Interconnect	(3) Intel® UPI 11.2/10.4 GT/s		
Number of DIMM Slot	32/ (16+16)		
Memory Type (max. capacity)	Follow latest 3rd Gen. Intel® Xeon® SP DDR4 Memory POR* *: Actual memory speed depends on populated CPU models		
Storage Controller	Intel® C621A PCH (SATA 6Gb/s) Intel® VMD 2.0 (NVMe)		
RAID Support	RAID 0, 1, 10, 5 (Intel® RSTe)		
Networking	(2) 10GbE + (1) IPMI		
PCI Expansion Slots	(4) PCIe Gen.4 x16 + (1) PCIe Gen.4 x8 + (1) PCIe Gen.4 x16 OCP 3.0 mezz. + (2) PCIe Gen.4 x4 NVMe M.2 (22110/2280) slots		
Power Supply	(1+1) 1,600W (@220VAC) RPSU		
Standard Model	**# Storage Bay**	**# PCIe slots**	**Networking**
B7122T75V8E4HR-2T	(12) 3.5"/2.5" hot-swap (12 SATA w/ 4 NVMe)	(5) PCIe Gen.4 slots + (1) OCP 3.0 mezz. + (2) M.2	(2) 10GbE + (1) IPMI

Transport HX
FT65T-B8030

AMD EPYC · 7nm · 64 Core · 80 PLUS PLATINUM · nvm EXPRESS · PCIe 4.0

Pedestal/4U 1S server platform supports multiple high performance GPU cards

4 GPU

Model Number	FT65T-B8030
Enclosure Form Factor	4U (25.5" in depth)
Supported CPU	(1) AMD EPYC™ 7002/7003 series processor
Number of DIMM Slot	8
Memory Type (max. capacity)	Follow latest AMD Milan/Rome Platform DDR4 Memory POR* RDIMM/RDIMM 3DS/LRDIMM//LRDIMM 3DS 3200 (8,192GB) *: Actual memory speed depends on memory population topology
Storage Controller	AMD EPYC 7002/7003 series processor
RAID Support	N/A
Networking	(2) 10GbE + (2) GbE + (1) IPMI or (2) GbE + (1) IPMI
PCI Expansion Slots	(5) PCIe Gen.4 x16 (four double-wide GPU cards + one additional card on top) + (2) PCIe Gen.4 x4 NVMe M.2 (22110/2280) slots
Power Supply	2,000W (@220V$_{AC}$) ATX

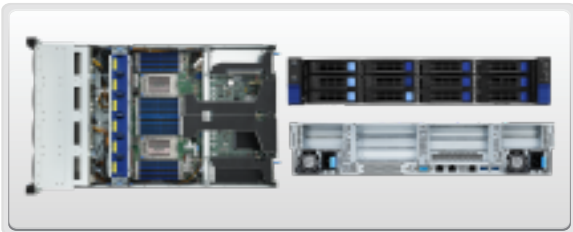| Standard Model	# Storage Bay	# PCIe slots	Networking
B8030F65TV8E2H-2T-N	(2) 2.5" hot-swap (NVMe/SATA) + (8) 3.5" hot-swap (SATA/SAS)	(5) PCIe Gen.4 x16+ (2) M.2	(2) 10GBase-T + (2) 1000Base-T + (1) 1000Base-T (IPMI)
B8030F65TV8E2H-N	(2) 2.5" hot-swap (NVMe/SATA) + (8) 3.5" hot-swap (SATA/SAS)	(5) PCIe Gen.4 x16+ (2) M.2	(2) 1000Base-T + (1) 1000Base-T (IPMI)
B8030F65TV8E2H-G	(2) 2.5" hot-swap (NVMe/SATA) + (8) 3.5" hot-swap (SATA/SAS)	(5) PCIe Gen.4 x16+ (2) M.2	(2) 1000Base-T + (1) 1000Base-T (IPMI)

-N SKU

Transport HX
TN83-B8251

AMD EPYC · 7nm · 64 Core · 80 PLUS PLATINUM · nvm EXPRESS · PCIe 4.0

4 GPU

2U2S GPU server platform designed for HPC/GPGPU applications

Model Number	TN83-B8251
Enclosure Form Factor	2U (32.68" in depth)
Supported CPU	(2) AMD EPYC™ 7002 / 7003 Series processor
Number of DIMM Slot	16 / (8+8)
Memory Type (max. capacity)	Follow latest AMD Rome / Milan Platform DDR4 Memory POR* RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200 (4,096GB) *: Actual memory speed depends on memory population topology
Storage Controller	AMD EPYC 7002 / 7003 series processor (SATA 6Gb/s)
RAID Support	N/A
Networking	(2) 10GbE + (1) IPMI
PCI Expansion Slots	(4) FH/10.5"L/DW PCIe Gen.4 x16 + (2) HH/HL PCIe Gen.4 x16 slots
Power Supply	(1+1) 2,200W (@220V$_{AC}$) CRPS

Standard Model	# Storage Bay	# PCIe slots	Networking
B8251T83E8HR-2T-N	(8) 3.5"/2.5" hot-swap (NVMe/SATA)	(4) FH/10.5"L PCIe Gen.4 x16 + (2) HH/HL PCIe Gen.4 x16	(2) 10GBase-T + (1) 1000Base-T (IPMI)

Transport HX
TS75-B8252

AMD EPYC · 7nm · 64 Core · 80 PLUS PLATINUM · nvm EXPRESS · PCIe 4.0

2 GPU Active

80 PLUS PLATINUM

2U2S server platform designed for HPC/VM applications

Model Number	TS75-B8252
Enclosure Form Factor	2U (29.53" in depth)
Supported CPU	(2) AMD EPYC™ 7002 / 7003 Series processor
Number of DIMM Slot	32 / (16+16)
Memory Type (max. capacity)	Follow latest AMD Rome / Milan Platform DDR4 Memory POR* RDIMM/RDIMM 3DS/LRDIMM//LRDIMM 3DS 3200 /2933 (8,192GB) *: Actual memory speed depends on memory population topology
Storage Controller	AMD EPYC 7002 / 7003 series processor + Marvell 88SE9235 IOC (SATA 6Gb/s)
RAID Support	N/A
Networking	(2) 10GbE + (1) IPMI
PCI Expansion Slots	(2) FH/10.5"L + (2) HH/HL PCIe Gen.4 x16 (or (4) FH/HL + (4) HH/HL PCIe Gen.4 x8) + (1) FH/HL PCIe Gen.4 x8 + (1) PCIe Gen.4 x16 OCP 3.0 Mezz. + (2) PCIe Gen.4 x4 NVMe M.2 (22110/2280) slots
Power Supply	(1+1) 1,600W (@220V$_{AC}$) CRPS

Standard Model	# Storage Bay	# PCIe slots	Networking
B8252T75V8E4HR-2T	(12) 3.5"/2.5" hot-swap (12 SATA w/ 4 NVMe)	(4) PCIe Gen.4 x16 + (1) PCIe Gen.4 x8 + (1) OCP 3.0 Mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B8252T75V8E4HR-8X-2T	(12) 3.5"/2.5" hot-swap (12 SATA w/ 4 NVMe)	(9) PCIe Gen.4 x8 + (1) OCP 3.0 Mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)

Transport HX
TS75A-B8252

AMD EPYC · 7nm · 64 Core · 80 PLUS PLATINUM · nvm EXPRESS · PCIe 4.0

2 GPU Active

80 PLUS PLATINUM

2U2S server platform designed for HPC/VM applications

Model Number	TS75A-B8252
Enclosure Form Factor	2U (29.53" in depth)
Supported CPU	(2) AMD EPYC™ 7002 / 7003 Series processor
Number of DIMM Slot	32 / (16+16)
Memory Type (max. capacity)	Follow latest AMD Rome / Milan Platform DDR4 Memory POR* RDIMM/RDIMM 3DS/LRDIMM//LRDIMM 3DS 3200 /2933 (8,192GB) *: Actual memory speed depends on memory population topology
Storage Controller	AMD EPYC 7002 / 7003 series processor + Marvell 88SE9235 IOC (SATA 6Gb/s)
RAID Support	N/A
Networking	(2) 10GbE + (1) IPMI
PCI Expansion Slots	(2) FH/10.5"L + (2) HH/HL PCIe Gen.4 x16 (or (4) FH/HL + (4) HH/HL PCIe Gen.4 x8) + (1) FH/HL PCIe Gen.4 x8 + (1) PCIe Gen.4 x16 OCP 3.0 Mezz. + (2) PCIe Gen.4 x4 NVMe M.2 (22110/2280) slots
Power Supply	(1+1) 1,600W (@220V$_{AC}$) CRPS

Standard Model	# Storage Bay	# PCIe slots	Networking
B8252T75AV18E8HR-2T	(26) 2.5" hot-swap (18 SATA + 8 NVMe)	(4) PCIe Gen.4 x16 + (1) PCIe Gen.4 x8 + (1) OCP 3.0 Mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B8252T75AV18E8HR-8X-2T	(26) 2.5" hot-swap (18 SATA + 8 NVMe)	(9) PCIe Gen.4 x8 + (1) OCP 3.0 Mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)
B8252T75AV26HR-2T	(26) 2.5" hot-swap (SATA)	(4) PCIe Gen.4 x16 + (1) PCIe Gen.4 x8 + (1) OCP 3.0 Mezz. + (2) M.2	(2) 10GBase-T + (1) 1000Base-T (IPMI)

TYAN
www.tyan.com

MITAC COMPUTING TECHNOLOGY CORP.

USA
39660 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 Shibaura 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
TEL: +44 07540328523 Robin Daunter
Email: robin.daunter@tyan.com

FC CE

www.tyan.com

Please contact your sales representative or TYAN authorized distributors.