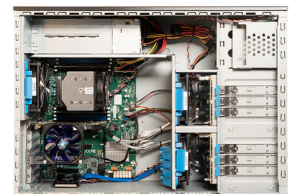# Datasheet

Intel single-CPU TI108+ tower server

[Ver. 1.0]

Highlights at a glance:

- Incl. 1x Intel Xeon Bronze 3204, can be expanded to up to 1x CPUs (6 - 24 cores)

- Incl. 16 GB RAM, upgradable to 1TB RAM, (8 DIMMs)

- 8x 3.5" / 2.5" (Hot-swap) up to 176 TB, SSDs: 61.44 TB

- Expandable with 5 FP/ FL add-on card(s), 2x PCIe 3.0 x16 1x PCIe 3.0 x4 (in x8) 2x PCIe 3.0 x8

- Energy-efficient power supply 80 PLUS Gold (>87%) red. NT (opt.)

- Integrated IPMI (dedicated NIC)

Mainboards

Manufacturer	Supermicro
Mainboards	Supermicro X11SPi-TF
Chipset	Intel C622
Socket	Intel LGA 3647-0
Processor	Intel Xeon Scalable 2nd Gen (Cascade Lake)
Main Memory	8 DIMMs 1 TB DDR4 2133/2400/2666/2933 RDIMM
LAN Onboard	2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Intel X557, Intel X722
LAN Onboard (dedicated IPMI)	1x Aspeed AST2500 (dedicated IPMI)
Onboard graphic	1x VGA Aspeed AST2500 BMC
Additional card (optional)	PNY NVIDIA Quadro T1000 (4GB)
Onboard Input/Output	USB (no PS2 ports!) 1x TPM Header 2x COM Ports (1 rear, 1 header)
USB ports	4x USB (rear) (2x USB 2.0, 2x USB 3.0) (4x USB 2.0, 2x USB 3.0) 1x USB on board (type A) (USB 3.0)

Extension-slots for additional cards

PCI slots (mainboard)	2x PCIe 3.0 x16 1x PCIe 3.0 x4 (in x8) 2x PCIe 3.0 x8
Available slots in the chassis	5x Full profile/Full Length
Possible Riser cards	1x PCI-E (x8) Riserkarte

Onboard ports

SATA-3 (6 Gb/s)	10x SATA-3 (6 Gbit/s) Intel C622 RAID 0, 1, 10, 5, Software-Raid
M.2	1 x M.2 PCIe 3.0 x4, SATA
M.2 form factor	2280, 22110

Drives / storage capacity

Drive slots (total)	8x 3.5" / 2.5" (Hot-swap) 4x 2.5"
Backplane	SATA / SAS-3 (12 Gb/s)
Max. capacity HDD (SAS)	176 TB
Max. capacity HDD (SATA)	176 TB
Max. capacity SSD (SATA)	61.44 TB
Max. capacity SSD (SATA)	61.44 TB

Server management

Management software	Supermicro SuperDoctor 5
Remote management	Integrated IPMI (dedicated NIC)
Features	Managementsoftware IPMI View IPMI with KVM Over LAN Serial Over LAN (SOL) Virtual Media Over LAN (Virtual USB Floppy/CD and Drive Redirection) LAN Alert-SNMP Trap Event Log OS Independent Hardware Health Monitor Remote Power Control Support RMCP & RMCP + Protocols Fan Speed Control Dedicated 3. network interface card
IPMI-sensors	CPU-temperature (OK / warning) system-temperature (Celsius degree) Electronic voltage (volt) Cooler speed (RPM) Additional model-dependent sensors (www.thomas-krenn.com/ipmi-sensoren)

Chassis

Unit	5U
Dimensions	425 mm (H), 220 mm (W), 620 mm (D), 668 mm (D) (incl. front panel)
drives (in scope of delivery)	not contained, optional available
Drives (optional)	2x 5,25" Laufwerk
Front USB ports	2

Power supply

Power supply unit	750 Watt Silent Netzteil (80plus Gold)
energy efficiency	90%
Redundant power supply (selectable option)	Optional

Rack Assembly

Assembly rails	19" conversion-kit possible, optional available
rail length	770 - 950 mm mm
Total length server front to end of assembly rail	800 mm
Max. extraction length	685 mm
Recommended maneuvering space	75 mm (minimum)

environment-requirements

Recommended ambient temperature	20 - 22 degree
Recommended humidity	max. 40%
Recommended deployment location	Thanks to its design and low noise output (with optional silent kit), the system is optimally equipped for use in the office. With the 19" rack assembly conversion kit, the server can also be installed in a rack.