

# Datasheet

## Tower server Intel single-CPU TI1506-INXSN

[Ver. 1.0]

### Highlights at a glance:

- Incl. 1x Intel Xeon Silver 4309Y, can be equipped with a CPU (Intel Xeon Scalable 3rd Gen) up to 40 cores
- Incl. 16 GB RAM, upgradable to 1TB RAM, (8 DIMMs)
- 6x 3.5" / 2.5" (Hot-swap) up to 132 TB, SSDs: 76.8 TB
- Expandable with 7 FP/ HL add-on card(s), 3x PCIe 3.0 x8 3x PCIe 4.0 x16 2x PCIe 4.0 x8 4x PCIe 5.0 x16 2x PCIe 5.0 x8
- Integrated IPMI (dedicated NIC)
- Conversion kit available (for use with a 19" rack).



## Mainboards

|                              |                                                              |                                                              |                                                            |
|------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|
| Manufacturer                 | Supermicro                                                   | Supermicro                                                   | Supermicro                                                 |
| Mainboards                   | X12SPL-F                                                     | X12SPL-LN4F                                                  | X12SPi-TF                                                  |
| Chipset                      | Intel C621A                                                  | Intel C621A                                                  | Intel C621A                                                |
| Socket                       | Intel LGA 4189                                               | Intel LGA 4189                                               | Intel LGA 4189                                             |
| Processor                    | Intel Xeon Scalable 3rd Gen                                  | Intel Xeon Scalable 3rd Gen                                  | Intel Xeon Scalable 3rd Gen                                |
| Main Memory                  | 8 DIMMs<br>1 TB DDR4 3200 RDIMM                              | 8 DIMMs<br>1 TB DDR4 3200 RDIMM                              | 8 DIMMs<br>1 TB DDR4 3200 RDIMM                            |
| LAN Onboard                  | 2 x 1 GBit/s LAN (RJ-45)                                     | 4 x 1 GBit/s LAN (RJ-45)                                     | 2x 10 Gbit/s LAN (RJ-45)                                   |
| LAN chipset                  | Intel i210                                                   | Intel i210                                                   | Intel X550                                                 |
| LAN Onboard (dedicated IPMI) | 1x RJ45 Dedicated IPMI LAN port                              | 1x RJ45 Dedicated IPMI LAN port                              | 1x RJ45 Dedicated IPMI LAN port                            |
| Onboard graphic              | 1x VGA ASPEED AST2600 BMC                                    | 1x VGA ASPEED AST2600 BMC                                    | 1x VGA ASPEED AST2600 BMC                                  |
| Additional card (optional)   | PNY NVIDIA Quadro T1000 (4GB)                                | PNY NVIDIA Quadro T1000 (4GB)                                | PNY NVIDIA Quadro T1000 (4GB)                              |
| Onboard Input/Output         | USB (no PS2 ports!)<br>1x TPM Header<br>1x COM Port (header) | USB (no PS2 ports!)<br>1x TPM Header<br>1x COM Port (header) | USB (no PS2 ports!)<br>1x TPM Header<br>1x COM port (rear) |
| USB ports                    | 4x USB (rear)<br><br>1x USB on board (type A)                | 4x USB (rear)<br><br>1x USB on board (type A)                | 4x USB (rear)<br><br>1x USB on board (type A)              |

## Extension-slots for additional cards

|                                |                                                     |                                                     |                                   |
|--------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------|
| PCI slots (mainboard)          | 3x PCIe 3.0 x8<br>2x PCIe 4.0 x16<br>2x PCIe 4.0 x8 | 3x PCIe 3.0 x8<br>2x PCIe 4.0 x16<br>2x PCIe 4.0 x8 | 3x PCIe 4.0 x16<br>2x PCIe 4.0 x8 |
| Available slots in the chassis | 7x Full profile/Half Length                         | 7x Full profile/Half Length                         | 5x Full profile/Half Length       |
| Possible Riser cards           | 1x PCI-E (x8) Riserkarte                            | 1x PCI-E (x8) Riserkarte                            | 1x PCI-E (x8) Riserkarte          |

Onboard ports

|                   |                                                                      |                                                                      |                                                                      |
|-------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| SATA-3 (6 Gb/s)   | 12x SATA-3 (6 Gbit/s) Intel C621A<br>RAID 0, 1, 10, 5, Software-Raid | 12x SATA-3 (6 Gbit/s) Intel C621A<br>RAID 0, 1, 10, 5, Software-Raid | 10x SATA-3 (6 Gbit/s) Intel C621A<br>RAID 0, 1, 10, 5, Software-Raid |
| Port distribution | 8x Intel PCH<br>0x Intel SCU<br>2x SuperDOM support                  | 8x Intel PCH<br>0x Intel SCU<br>2x SuperDOM support                  | 8x Intel PCH<br>0x Intel SCU<br>2x SuperDOM support                  |
| M.2               | 1 x M.2 PCIe 3.0 x4, SATA                                            | 1 x M.2 PCIe 3.0 x4                                                  | 1 x M.2 PCIe 3.0 x4, SATA                                            |
| M.2 form factor   | 2280, 22110                                                          | 2280, 22110                                                          | 2280, 22110                                                          |
| NVMe              | 0x NVMe onboard                                                      | 0x NVMe onboard                                                      | 2x NVMe onboard                                                      |

Drives / storage capacity

|                                |                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------|
| Drive slots (total)            | 6x 3.5" / 2.5" (Hot-swap)<br>5x 2.5" (Internal, non-hot-swap)<br>52.5" (rear of chassis, hot-swap) |
| SAS / SATA slots               | 6x SAS / SATA                                                                                      |
| NVMe / SAS / SATA hybrid slots | 4x NVMe / SAS / SATA (hybrid)                                                                      |
| Backplane                      | SATA / SAS-3 / NVMe (12 Gb/s)                                                                      |
| Max. capacity HDD (SAS)        | 132 TB                                                                                             |
| Max. capacity HDD (SATA)       | 132 TB                                                                                             |
| Max. capacity SSD (SATA)       | 46.08 TB                                                                                           |
| Max. capacity SSD (SATA)       | 46.08 TB                                                                                           |
| Max. capacity SSD (U.2 NVMe)   | 61.44 TB                                                                                           |

## Server management

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

## Chassis

|                   |                                     |
|-------------------|-------------------------------------|
| Unit              | 5U                                  |
| Dimensions        | 430 mm (H), 200 mm (W), 596 mm (D), |
| Drives (optional) | External USB-drives                 |
| Front USB ports   | 2                                   |

**Power supply**

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Power supply unit                          | 750 Watt Silent Netzteil (80plus Gold) |
| energy efficiency                          | 90%                                    |
| Redundant power supply (selectable option) | 2x 1200 W                              |

**Rack Assembly**

|                |                                                 |
|----------------|-------------------------------------------------|
| Assembly rails | 19" conversion-kit possible, optional available |
|----------------|-------------------------------------------------|

**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. |