



# THOR11-H6

**5G TECHNOLOGIES AND HIGH-PERFORMANCE  
COMPUTING SERVER**



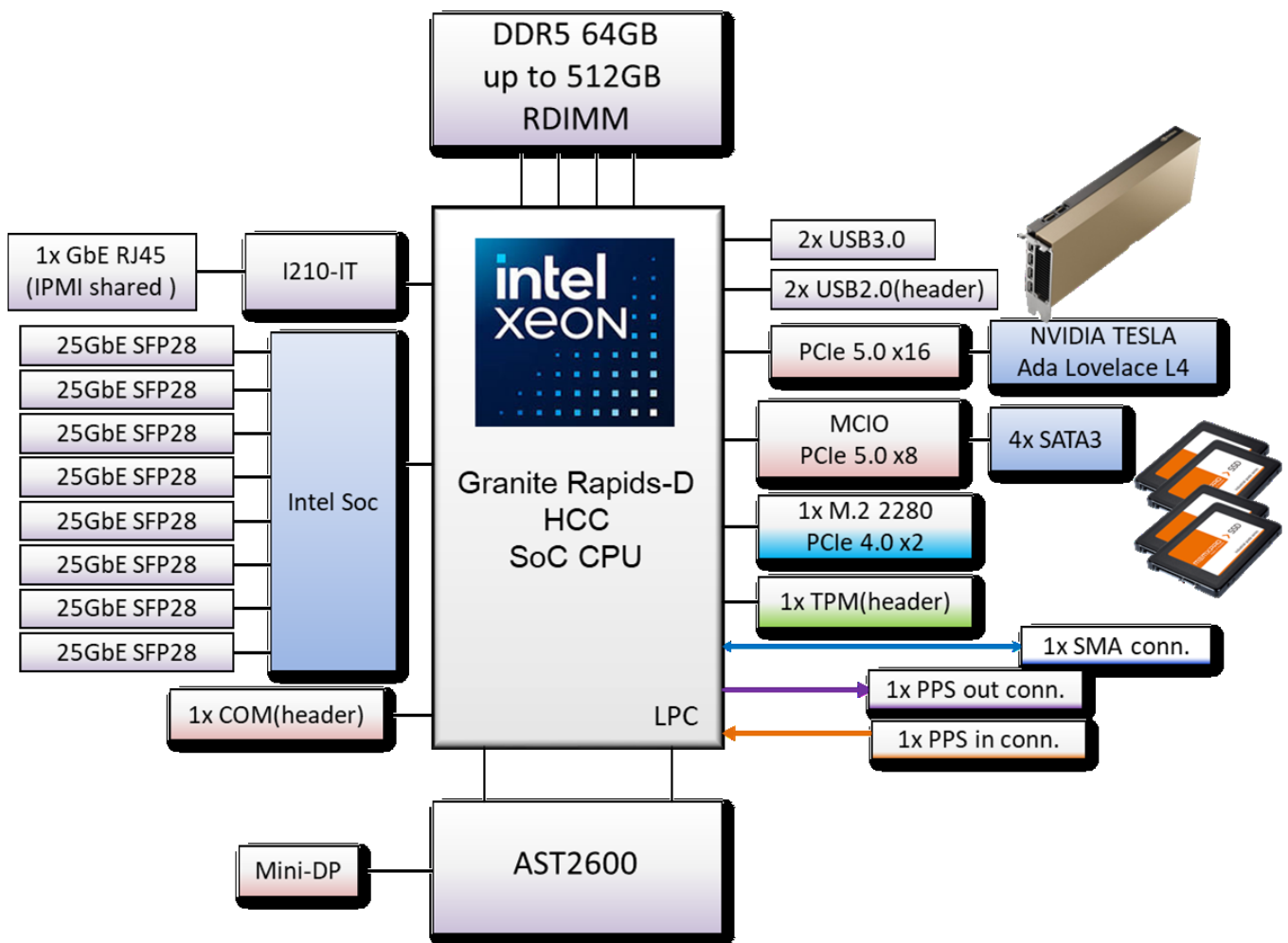
- Intel® Xeon® 6 Granite Rapids D Processor
  - 6556P-B, 36Cores 2.3/3.5 GHz, 215W
- DDR5 up to 6400MT/s , 64GB RDIMM, up to 512GB
- 1TB/8TB SSD Storage
- 1x MCIO Gen 5.0 x8
- 100~264 VAC 860W Redundancy PSU
- 8x SPF28 25GbE , 1GbE-T share with IPMI
- Operating Temperature Support -40°C ~ +60°C
- 1U Rackmount Short Depth lightweight chassis

# 1. INTRODUCTION

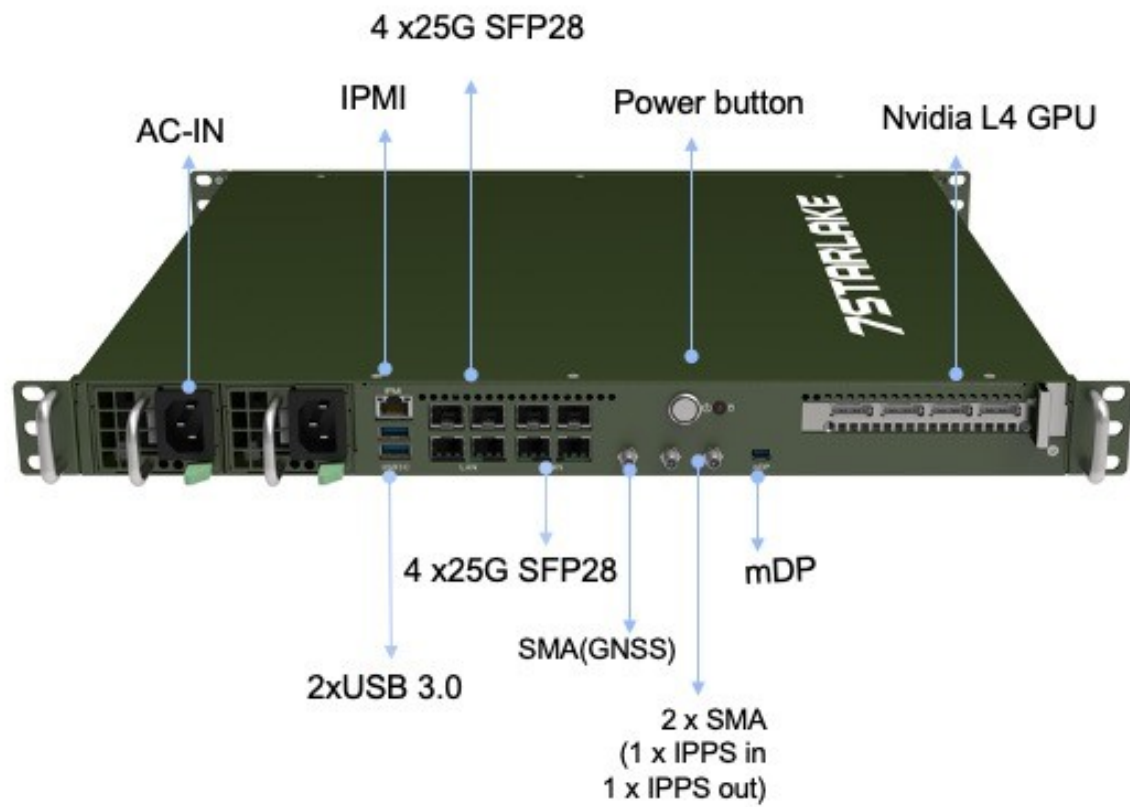
Powered by the latest Intel® Xeon® 6 Granite Rapids D processor, the THOR11-H6 is a 1U short-depth, high-performance rackmount server built for modern edge computing and 5G network deployments. Supporting up to 512GB of high-speed DDR5 memory, it delivers outstanding computing performance in a space-efficient form factor. With up to 8TB of SSD storage and MCIO Gen 5.0 x8 connectivity, it enables rapid data access and high-throughput transfers. Its lightweight chassis and broad operating temperature range make it a reliable choice for installation in demanding or space-constrained environments.

Whether enabling high-speed data processing at telecom edge nodes or supporting AI inferencing at remote industrial sites, the THOR11-H6 adapts with ease. Its 8x SFP28 25GbE ports and redundant 860W PSU provide enterprise-grade reliability and connectivity. This server is an excellent fit for 5G core networks, real-time video analytics, or compact data centers where space and performance must coexist seamlessly.

## 2. Block Diagram



### 3. Appearance



## 4. SYSTEM SPEC

### SYSTEM

CPU	Intel® Xeon® 6 SoC 6556P-B, 36 Cores, CPU TDP 215W etemp support
Memory type	Up to 512GB RDIMM, 4CH DDR5 4800/6400 MHz in 4 Slots
Chipset	SoC
IPMI	ASPEED AST2600
GPU	SoC

### STORAGE

HDD/SSD	1x MCIO, Gen5 x8 connector slots
---------	----------------------------------

### ETHERNET

Ethernet	8x 25GbE SFP28 (SoC)+ x IPMI shared LAN 1x GbE RJ45
MCIO	1x PCIe 5.0 x8 via MCIO Connector slots
OS Support List	Windows 11, RHEL 9.4 64bit, RHEL 9.5 64bit, Oracle 9.4 64bit, Oracle 9.5 64bit, Rocky Linux 9.4 64bit, Rocky Linux 9.5 64bit, SLES 15 SP6 64bit, Ubuntu 24.04.1 64bit Server, VMWare ESXi 8.0U2

### POWER

Power Requirement	2x AC 110/220V 600W Power Supply 18~36V 500W DC Power Supply (optional)
Dimension	410 x 400 x 44 mm ( W x D x H ) final size is dependent on specific configuration
Weight	≤ 12kg final size is dependent on specific configuration

### FRONT I/O

Switch	1x Power On switch
IPMI	1x IPMI shared LAN 1x GbE RJ45
USB	2x USB 3.0
LAN1-8	8x 25GbE SFP28
Display	1x VGA
Antenna	3x SMA : 1 x PPS input, 1 x PPS output, 1x GNSS port

### ENVIRONMENT

Operating Temp.	-40°C to 60°C
Storage Temp.	-40°C to 75°C
Relative Humidity	5% to 95%, non-condensing

---

**MIL-STD-810 ENVIRONMENT TESTING STANDARDS**

---

Method 501, Operational Temperature, high:	Procedure II: +60°C, two-hour dwell, four cycles
Method 501, Storage Temperature, high:	Procedure I: +75°C, two-hour dwell, four cycles
Method 502, Operational Temperature, low:	Procedure II: -40°C, two-hour dwell, four cycles
Method 502, Storage Temperature, low:	Procedure I: -40°C, two-hour dwell, four cycles
Method 514, Vibration:	Category 24/Non-Operating ( Category 20 & 24, Vibration )
Method 514, Vibration:	Category 20/Operating ( Category 20 & 24, Vibration )
Method 516, Shock:	Procedure V Non-Operating ( Mechanical Shock )
Method 516, Shock:	Procedure I Operating ( Mechanical Shock )
Method 507, Humidity:	Procedure II: exposure to 10 cycles of 95% relative humidity at temperatures of 30 °C to 60 °C with conformal coating (optional)
Method 509, Salt fog:	Each cycle consists of 24 hours in salt-fog conditions of 5%NaCl, 95% relative humidity and 35 °C followed by 24 hours of drying in an environment with less than 50% relative humidity (optional)
Method 500, Altitude (Low Pressure):	15,000 feet transport, -200÷2500[m] ground operation and exposed to +55°C and -20°C operation (optional)
Method 510, Sand-Dust:	Procedure I: Blasting dust, 12 hours (optional)
Method 508, Fungus:	28 days, mixed spore, 30°C 95% RH (optional)

---

**MIL-STD-461 ELECTROMAGNETIC TESTING STANDARDS**

---

CE102	Conducted emissions, power leads, 10KHz to 10MHz
RE102	Radiated emissions, electric field, 30MHz to 5GHz
RS103	Radiated susceptibility, electric field, 80MHz to 3GHz
CS101	Conducted susceptibility, power leads, 30Hz to 150KHz (Figure CS101-1: Curve #2) (optional)
CS114	Conducted susceptibility, bulk cable injection, 10KHz to 200MHz, curves 3&4 (10 kHz to 2 MHz: Curve #3 2MHz to 200MHz: Curve #4) (optional)
CS115	Conducted susceptibility, bulk cable injection, impulse excitation (5A) (optional)
CS116	Conducted susceptibility, damped sinusoidal transients, cables and power leads, 10KHz to 100MHz (10A) (optional)
CS118	Personnel borne electrostatic discharge (optional)

---

This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representative.