



LAND



SEA



AIR

AV1000-10L-60A

INTEL® 6TH XEON® GRANITE RAPIDS SP PROCESSOR
LIQUID COOLED GPU SERVER



- Liquid Cooled Platform
- CPU: Intel® 6th Xeon® Granite Rapids SP processor or Intel® Core™ i7 Raptor Lake Processor
- GPU: 1/2x NVIDIA RTX 6000Ada 48GB GDDR6, 18,176 CUDA cores
- 4 x DDR5-4400MHz, up to 512GB
- 12V~63V DC Input
- Storage: 1 x M.2 NVMe 4TB SSD
- Storage: 4 x NVMe SSD, up to 64TB (Optional)
- Dimension: 450 x 500 x 100 mm (W x D x H)



Introduction

Powered by the Intel® Xeon® 6th Gen Granite Rapids processor, the AV1000-10L-60A is a rugged, IP65-rated liquid-cooled GPU server designed for extreme edge AI workloads in harsh environments. With support for up to two NVIDIA RTX 6000 Ada GPUs (offering 48GB GDDR6 memory and over 18,000 CUDA cores), it delivers unmatched parallel computing power. Its advanced gun-drilled conduction liquid cooling system handles thermal loads up to 10kW, ensuring stable performance even under full load. The system supports up to 2TB of high-speed DDR5 memory, making it ideal for real-time processing in defense, aerospace, and field-deployed AI applications.

Designed for mission-critical deployments, the AV1000-10L-60A offers flexible 12V~60V DC input, making it suitable for both vehicle and stationary platforms. It features ultra-fast storage with a 4TB M.2 NVMe SSD and support for up to 64TB of additional NVMe storage. With its SWaP-C compact rugged form factor, wide thermal tolerance, and GPU-accelerated compute capabilities, the AV1000-10L-60A is built for AI inference, video analytics, and data-heavy edge applications in the toughest environments.

Ordering Information

AV1000-10L-60A

Liquid Cooled GPU server System, with Intel® i7-13700TE Processor, 1x NVIDIA RTX 6000 Ada GPU, 10x 1GbE LAN ports , 6x GMSL ports, IP54 rating, IEC metric screw sized connectors- M8/M12/M20 & MIL-STD-D38999 Connectors, 12V~63V DC-IN.

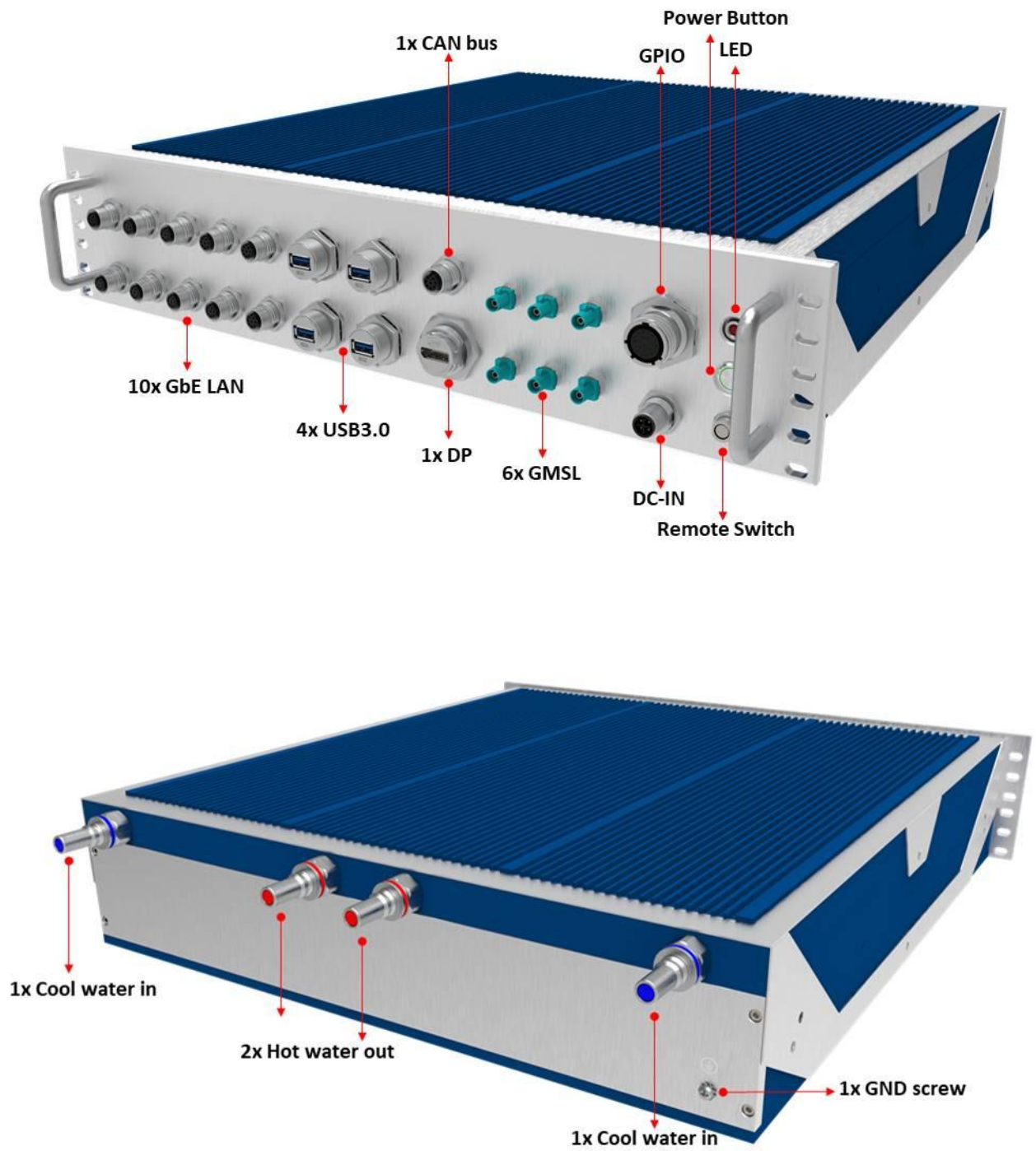
AV1000-X6S

Liquid Cooled GPU server System, with Single Intel® Xeon 6 Processor, 1x NVIDIA RTX 6000 Ada GPU, 10x 1GbE LAN ports , 6x GMSL ports, IP54 rating, IEC metric screw sized connectors- M8/M12/M20 & MIL-STD-D38999 Connectors, 12V~63V DC-IN.

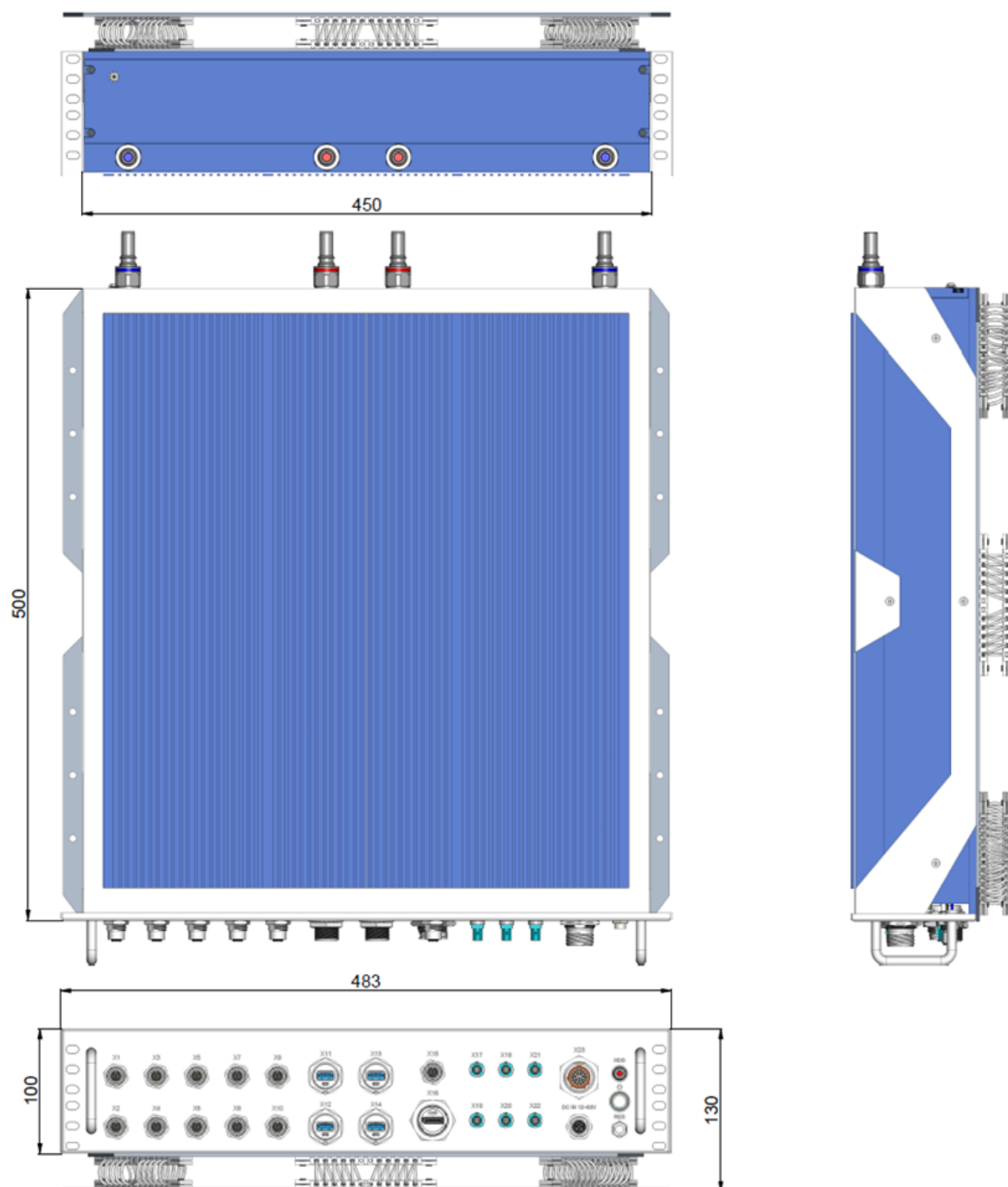
AV1000-X6D

Liquid Cooled GPU server System, with Dual Intel® Xeon 6 Processors, 2x NVIDIA RTX 6000 Ada GPU, 10x 1GbE LAN ports , 6x GMSL ports, IP54 rating, IEC metric screw sized connectors- M8/M12/M20 & MIL-STD-D38999 Connectors, 100V~240V AC-IN.

Appearance



Dimension



Specifications

SYSTEM

CPU	Intel® i7-13700TE processor (Raptor Lake), 16C/24T, TDP 35W or Intel® Xeon® 6 Granite Rapids Processor, 32C/64T, TDP 250W
Memory type	4 x DDR5-4400/5600 MT/s ECC/non-ECC UDIMM, up to 128GB
GPU	1/2x NVIDIA® RTX 6000 Ada, 48GB, 18,176 CUDA, Max. 300/600W

STORAGE

M.2	1 x M.2 2280 NVMe 4TB SSD
NVMe	4 x NVMe 16TB SSD (Optional)

FRONT I/O (M8/M12/M20/D38999)

X1-X10	10 x 1GbE LAN with M12 connector
X11-X14	4 x USB3.0 with M20 connector
X15	1 x CAN bus with M12 connector
X16	1 x DP with M20 connector
X17-X22	6 x GMSL with FAKRA(Z code) connector
X23	GPIO 8in/8out with D38999 connector
DC-IN	1 x 12V~63V DC with M12 connector
Power button	1 x IP67 power button
RES	1 x Remote Switch with M8 connector

REAR I/O

GND	1 x GND screw
Water in	2 x LQ4 with 1/4" G-thread/BSPP, Blue color
Water out	2 x LQ4 with 1/4" G-thread/BSPP, Red color

OS SUPPORT LIST

OS	X86_64 Architecture, Ubuntu 20.04/22.04
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THERMAL

Liquid Cooled	Liquid Cooled Plate by Liquid-to-Liquid thermal exchange
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MECHANICAL

Power Requirement	12V~63V DC-IN
Dimension	450 x 500 x 100mm (W x D x H) exclude Shock isolation plate
Weight	21 kg

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.