

Atlas 800 Training Server

Model: 9000



The ultimate computing density

- 2.56 PFLOPS FP16 in a 4U space
- 1.7x the computing density of industry peers

Superior perf./watt

- Supports air cooling and liquid cooling
- 2.56 PFLOPS/5.6 kW¹ ultra-high energy efficiency, 1.3x that of its counterparts

High-speed network

- 8 100G RoCE v2 high-speed ports
- Slashes cross-server chip interconnect latency by 10–70%

The Atlas 800 training server (model: 9000) is powered by the Kunpeng 920 and Ascend 910 processors. It features the industry's highest computing density, ultra-high energy efficiency, and high network bandwidth. The server is widely used in deep learning model development and training scenarios, and is an ideal option for computing-intensive industries, such as smart city, intelligent healthcare, astronomical exploration, and oil exploration.

Specifications

Form Factor	4U AI server
Processor	4 Kunpeng 920 processors
Processor Memory	<ul style="list-style-type: none">• Up to 32 DDR4 DIMM slots, supporting RDIMMs• Up to 2933 MT/s• 32 GB or 64 GB per DIMM
AI Processor	8 Ascend 910 processors
HBM	8 * 32 GB
AI Computing Power	2.56 / 2.24 / 2 PFLOPS FP16
Local Storage	<ul style="list-style-type: none">• 2 x 2.5" SAS/SATA + 3 x 2.5" NVMe• 2 x 2.5" SATA + 3 x 2.5" NVMe• 2 x 2.5" SAS/SATA + +6 x 2.5" NVMe• 2 x 2.5" SATA + +6 x 2.5" NVMe• 2 x 2.5" SATA + 8 x 2.5" SAS/SATA
RAID	RAID 0, 1, 10, 5, 50, 6, or 60
Network	8 100GE + 4 25GE/2 100GE
PCIe Expansion	Up to 2 PCIe 4.0 slots
PSUs	4 hot-swappable 2 kW or 3 kW AC PSUs, supporting 2+2 redundancy
Power Supply	<ul style="list-style-type: none">• 200–240 V AC• 240 V DC
Power Consumption	Maximum: 5.6 kW ¹
Cooling Mode	Air or liquid cooling
Fan Modules	8 hot-swappable fan modules, supporting N + 1 redundancy
Operating Temperature	5°C to 40°C (Liquid Cooling) 5°C to 35°C (Air Cooling)
Dimensions (H x W x D)	790 mm x 175 mm x 447 mm

1. This specification item is in continuous optimization. The value is dynamically updated based on the optimization result.

Application Scenarios

Deployed in data centers to enable AI training



Model training



HPC



Smart city



Smart healthcare



Astronomical exploration



Oil exploration