

BlueBrain AI Server IDS

AI-FAS-EX-S100

Making Cities Better

Product Overview

The BlueBrain AI Server IDS is a 2U server developed by BlueRobot AI. Powered by the Intel C621 high-performance chipset, it supports up to two 3rd Generation Intel Xeon processors, up to 4 TB of memory, eight hot-swappable 3.5-inch or 2.5-inch drives, and flexible expansion with full-height, full-length PCIe devices.

The server integrates the BlueBrain intelligent data processing system. For roadside parking, it provides an end-to-end workflow covering multi-source access, cloud-based AI interpretation, refined business data processing, standardized output, and large-scale data assurance. This workflow continuously delivers reliable, actionable operational data.

Its highly integrated architecture delivers powerful performance within a compact footprint for mission-critical workloads. The AI-FAS-EX-S100 also provides advanced management and storage capabilities, with scalable expansion and high availability.

Product Appearance



BLUE ROBOT AI

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Functional Features

- Flexible deployment and standardized integration: Supports standalone deployment and provides standardized data interfaces and business services for rapid system integration and launch.
- Intelligent data correction and enhancement: Performs secondary recognition and in-depth analysis of operational records reported by elevated video devices. Automated processing workflows and scenario-specific optimization help maintain a high level of system automation.
- End-to-end data enablement: Connects front-end video devices with the IDS platform to obtain richer field data. It supports AI-based automated inspection, passing-vehicle inspection, and other core services to improve operational efficiency.
- Open capability delivery: Packages and exposes business processing capabilities through RESTful APIs for rapid integration and use by third-party systems.

Technical Parameters

Parameter Name	Parameter Value
System Configuration	
Form Factor	2U rack server
Processor	2 x Intel Xeon Silver 4314 / 2.40 GHz / 24 MB / 16 cores / 32 threads / 135 W / 2 UPI / 2666 MHz
Memory	2 x 64 GB DDR4 / 2933 MHz or 3200 MHz / ECC / registered
Storage	6 x 4 TB enterprise HDD / SATA / 7200 RPM / 3.5-inch 2 x 480 GB read-intensive SSD / SATA 6 Gb/s / 2.5-inch / <1 DWPD
GPU Accelerator	1 x NVIDIA A10 / 24 GB
Network Adapter	1 x dual-port 10 GbE NIC / dual multimode SFP+ modules / Intel 82599 chipset / equivalent to X520-SR2 / OEM NIC kit P/N 18020040
Power Supply	1 x 800 W, 1+1 redundant power supply / Platinum efficiency / CRPS module
RAID Controller	1 x LR382A / 8 ports / SAS 12 Gb/s / half-height / PCIe 3.0 x8 / 1 GB cache / RAID 0, 1, 5, 6, 10, 50, 60 and JBOD
Expansion and I/O	
RAID Support	SATA RAID 0, 1, 10 and 5 supported. Optional SAS RAID 0, 1, 10, 5, 50, 6 and 60. RAID cache options: none, 1 GB or 2 GB; optional cache power-loss protection.
PCIe Expansion	Multiple full-height, full-length PCIe slots, including 2 x full-height PCIe 4.0 x8 slots and 1 x full-height PCIe 4.0 x16 slot
Other Ports	2 x USB 2.0 ports at rear; 3 x USB 3.0 ports, including 2 at front and 1 internal; 1 x rear VGA port; 1 x rear management port
Fans	3 hot-swappable fans
Power Modules	Standard: 1 x 550 W Platinum AC power module. Supports 1+0 single-power or 1+1 redundant mode. Optional 550 W, 800 W or 1200 W Platinum AC modules.



Parameter Name	Parameter Value
Management and Compatibility	
Management	IPMI 2.0; 1 x 100/1000 Mbps RJ45 management port; integrated iKVM; remote management supported
Display Controller	Integrated ASPEED AST2500
Supported OS	Windows Server 2012 R2 Red Hat Enterprise Linux Advanced Server 7.5
Power Input	220 V AC / 240 V DC
Physical and Environmental	
Dimensions	87 mm (H) x 438 mm (W) x 660 mm (D); compatible with 19-inch racks; minimum configured gross weight approximately 17 kg
Temperature	Operating: 10°C to 35°C Non-operating: -40°C to +55°C ambient
Relative Humidity	Non-operating: 95%, non-condensing at 25°C to 30°C
Noise	Operating sound pressure: <50 dBA measured at the side. Sound power: 6.2 BA at ambient temperature below 28°C.
Electrostatic Discharge	15 kV in accordance with Intel environmental test specifications
Safety Standard (China)	CCC

