

Blue Brain IoT Server EOC AI-FAS-EX-C100

Making Cities Better

Product Overview

The Blue Brain IoT Server EOC is a 2U server product newly launched by Super Vision. It adopts Intel C621 high-performance chipset, supports 3rd Gen Intel® Xeon® Scalable processors, and supports up to 4TB memory capacity and 8 hot-swappable 3.5-inch/2.5-inch hard drives, and can flexibly expand full-height full-length PCI-E devices.

The highly integrated design brings strong performance in a limited space, sufficient to support the operation of key tasks. It integrates and deploys EOC + IoT management system. This system is oriented to the field of intelligent transportation applications, and performs scenario-based, intelligent, and online centralized management of AIoT devices, realizing unified access, online supervision, remote upgrade, real-time monitoring, and intelligent operation and maintenance of AIoT devices, providing basic service guarantees for other business systems.

Product Appearance



Functional Features

- Supports independent deployment solutions, standardized data interfaces and business functions, enabling rapid deployment and business integration.
- The Blue Brain system performs secondary recognition and analysis on the business flow information reported by front-end high-level video devices, and performs data correction and enhancement on parking flow data. The Blue Brain system has a complete system automated data processing process, and has made targeted adjustments and optimizations for various front-end scenarios, keeping the overall automation rate of the Blue Brain system at a high

BLUE ROBOT AI

Address: RM1903, 19/F LEE GARDEN ONE, 33 HYSAN AVENUE, CAUSEWAY BAY, HK

Email: support@bluerobotai.com

Website: <https://www.bluerobotai.com/>



level.

- The Blue Brain System connects the data link between front-end video devices and the IDSL system, obtains richer data information from the front-end, and completes business functions such as AI automatic inspection, checkpoint data analysis, and passing vehicle inspection based on this information, empowering business with AI means.
- The Blue Brain System outputs encapsulated business processing capabilities through Restful interfaces.

Technical Specification

Features	Technical Specifications
Form Factor	2U Rack Server
Processor Model	2 X IntelXeonSilver 4314 Processor/2.40 GHz/24 MB/16C/32T/135 W/2UPI/2666MHz
Memory	2 × 64GB DDR4 2933MHz or 3200MHz ECC REG
Hard Disk	6 × 4TB HDD SATA 7200RPM 3.5-inch Enterprise 2 × 480GB SSD SATA 6Gb/s 2.5-inch Read Intensive <1DWPD
Network Card	1 × Dual-port 10GbE NIC / Dual Multi-mode SFP+ Modules / 82599 Chipset / Equivalent to X520-SR2 / OEM NIC (Kit P/N 18020040)
RAID Card	1 × LR382A / 8-port / SAS 12Gb / Half-height / PCIe 3.0 x8 / 1GB Cache / Supports RAID 0,1,5,6,10,50,60,JBOD
RAID Support	Supports SATA RAID 0, 1, 10, 5 Optional SAS RAID 0, 1, 10, 5, 50, 6, 60, etc., RAID with no cache/1GB/2GB cache Optional cache power failure protection
PCIe Expansion	Provides multiple full-height full-length PCIe expansion slots, including 2 full-height PCIe 4.0 x8 slots and 1 full-height PCIe 4.0 x16 slot
Other Ports	USB 2.0: 2 ports (2 rear) USB 3.0: 3 ports (2 front, 1 internal) VGA: 1 port (1 rear) Management NIC: 1 port (1 rear)
Fan	3 Hot-swappable Fans
Power Supply	Standard: 1 × 550W Platinum AC Power Module; Supports 1+0 single power mode or 1+1 redundant power mode; Optional 550W/800W/1200W Platinum AC power modules
Management	Supports IPMI 2.0, provides 1 100/1000Mbps RJ45 management NIC, integrated iKVM, supports remote management
Display Controller	Integrated ASPEED AST2500
Supported Operating Systems	Windows Server 2012 R2 Red Hat* Enterprise Advanced Server 7.5
Power Supply	220V AC /240V DC
Physical Dimensions	H87mm × W438mm × D660mm, 19-inch rack compatible, minimum configuration gross weight approx. 17kg
Ambient	Operating: 10°C to 35°C

BLUE ROBOT AI

Address: RM1903, 19/F LEE GARDEN ONE, 33 HYSAN AVENUE, CAUSEWAY BAY, HK

Email: support@bluerobotai.com

Website: <https://www.bluerobotai.com/>



Temperature	Non-operating: -40°C to +55°C ambient
Relative Humidity	Non-operating: 95%, non-condensing at 25°C to 30°C
Noise	Operating mode, sound pressure measured at side <50dBA; sound intensity measured at ambient temp <28°C is 6.2BA
ESD	Per Intel ambient temperature test specification 15KV
Safety Standard (China)	CCC

Software Functions

- City Overview provides users with data statistics functions, which can categorize and count normal and abnormal data of city parking lots, devices, and parking spaces.
- Parking Lot Management provides users with centralized management of parking lots and their devices, and can manage basic information and business relationships of devices.
- Parking Area Management is used to manage edge computing business parameters, cameras, parking spaces, and draw recognition areas.
- Time Limit Rules provides users with time limit rule management for parking and illegal parking, and can set time limit rule parameters and bind parking spaces.
- Address Push provides users with the function of batch setting service addresses for Sky Eye devices, monitoring boards, etc., which can quickly realize device switching from pre-release to commercial environment.
- Intelligent Tasks provides users with batch operation functions for parking space start/stop, platform synchronization, and address push. Task types, execution times, and related parking lots, parking spaces, and parking areas can be set, and operation logs are generated.
- Batch Modification provides users with the function of batch modifying parking area parameters and fill light parameters.
- Data Retransmission can re-upload parking flow and parking flow images of the parking lot according to the specified retransmission time and content.
- Data Synchronization synchronizes parking lot data and device data to platforms such as IDS and ACB, providing basic data for other platforms.
- Monitoring Strategy defines monitoring rules based on device type and fault type, sets alarm levels and thresholds, and determines whether O&M events are generated.
- Alarm Records monitors intelligent devices in real-time according to monitoring strategies. When an alarm occurs on a device, an alarm record is generated. After the alarm is cleared, the alarm record enters historical alarms.
- O&M Management generates O&M events for device alarms according to monitoring strategies, and provides unified dispatching and processing, as well as full lifecycle management for O&M events.
- Upgrade Management performs remote upgrades for intelligent devices, can manage upgrade versions by category, and generates logs after device upgrades.
- Permission Management manages system users and roles, and assigns role permissions to users.

BLUE ROBOT AI

Address: RM1903, 19/F LEE GARDEN ONE, 33 HYSAN AVENUE, CAUSEWAY BAY, HK

Email: support@bluerobotai.com

Website: <https://www.bluerobotai.com/>



Application Scenarios

Widely used in intelligent device management and O&M for city-level smart parking scenarios, illegal parking empowerment scenarios, and traffic order management scenarios

