Huawei Atlas 500 AI Edge Station



As edge computing gradually advances to intelligent computing, AI computing power at the edge is a basic customer demand.

The Huawei Atlas 500 AI edge station is an intelligent computing product built for edge applications. It features powerful computing performance, small form factor, strong environmental adaptability, easy maintenance, and cloud-edge collaboration. It is designed for security, transportation, community, campus, shopping malls, and supermarkets.









Intelligent Edge

- State-of-the-art product with AI processing capabilities
- Fan-free and stable at -40°C to +70°C outdoors

Huge Capacity in Compact Size

- Processes 16 HD channels in the size of a set-top-box (STB)
- Supports 16 Tera Operations Per Second (TOPS) of INT8

Cloud-Edge Collaboration

- Supports Wi-Fi and LTE
- Works with private and public clouds, receiving applications and algorithms pushed from the cloud
- Unified device management and firmware update on the cloud

Application Scenarios



Atlas Intelligent Edge System (IES)





Cloud-Edge Collaboration



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& M.2 SSDs

Atlas 500 Exterior Appearance



Specifications

| Processor | HiSilicon Hi3559A processor |
|-----------------------------------|---|
| Al chip | Built-in Atlas 200 AI accelerator module: 16 TOPS of INT8 and 8 TFLOPS FP16 computing power |
| DIMM | For the processor: 4 GB DDR4, 64-bit, 2400 Mbps For the AI accelerator module: 8 GB/4 GB LPDDR4x, 128- bit, 3200 Mbps |
| Hardware encoding/ decoding | H.264/H.265/MJPEG/JPEG/PNG* |
| Security algorithms | AES/DES/3DES encryption and decryption, RSA signature verification, and HASH anti-tampering |
| Storage | Onboard 32 GB eMMC (for operating system) 1 MicroSD slot and 1 M.2 SSD port Optional: 1 x 3.5" 6 TB/12 TB HDD |
| Network | 2 RJ45 GE ports 1 SIM card slot Optional: 3G/4G wireless module |
| Other I/O | 1 HDMI interface, 1 pair of 3.5 mm stereo input and output interfaces, 2 external and 1 internal USB 2.0 ports (Type-A) |
| Power supply | 12 V DC, with external power adapter |
| Protection rating | IP40 |
| System management | One-click firmware update, automatic hardware fault detection, autonomous management, and cloud-edge collaboration Web login Interconnects with Huawei Cloud Intelligent EdgeFabric (IEF) Interconnects with Huawei FusionDirector management platform |
| Dimensions (HxWxD) | No disk: 45 mm x 235 mm x 220 mm With disk: 45 mm x 355 mm x 220 mm |
| Weight | No disk: 2.5 kg With disk: 4.7 kg |
| Operating temperature | No disk: -40°C to +70°C With disk: -40°C to +60°C |
| Typical power consumption | No disk: 25 W With disk: 40 W |

*For detailed hardware encoding/decoding specifications, see the *Huawei Atlas 500 Technical* White Paper.

For more information, please visit https://e.huawei.com/en/products/cloud-computing-dc/servers/g-series

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