



Explore More

Edge Computing

Standalone Edge



Highlights

High Performance

- Provides up to 1M IOPS, 30 GB/s read, and 25 GB/s write throughput
- Selected KS models feature dual Intel® Xeon® Scalable 64-core or AMD EPYC™ 9004/9005 Series 160-core CPUs, along with up to 4 Nvidia GPUs

Data Protection

- Remote backup of VMs and application related data to cloud or storage

User-Friendly Management

- EonOne for managing compute, GPU, and storage resources
- EonKube for managing VMs and all deployed applications

Flexible Hardware Options

- KS 5000U and KS 3000U series offer seven models with configurable GPU options for various application needs

Support for Different Application Types

- Run cloud-native applications, traditional applications, and virtual machines

Introduction

Standalone Edge is a single-node edge computing platform designed for environments that prioritize operational simplicity, fast deployment, and cost efficiency. With a pre-integrated software stack featuring pre-installed OS and applications, it helps reduce deployment complexity and accelerate time-to-value for edge applications. The platform delivers high-performance compute with support for up to 2 CPUs and 4 GPUs, making it suitable for workloads such as AI inference, video analytics, retail operations, and industrial edge applications. Available in a compact, office-friendly design and optional low-noise chassis, it is ideal for branch offices, remote sites, retail stores, and smaller edge environments with lean IT resources.

High Performance

Standalone Edge compute node— KS— delivers outstanding storage performance, achieving 1M IOPS, 30 GB/s read, and 25 GB/s write throughput with high-speed U.2 NVMe SSDs. Offering flexible and powerful computing options, KS is available in two processor configurations: the KSi model with dual Intel® Xeon® Scalable processors and the KSa model with dual AMD EPYC™ 9004 or 9005 Series processors, supporting up to 320 cores per appliance.

Furthermore, the system supports GPU computing, making it ideal for retail applications and general AI workloads in small stores or edge environments with limited IT resources.

Data Protection

To protect applications, KS can regularly back up data to remote locations, offering flexible backup options, including backup of VMs and application-related data. This ensures fault tolerance and comprehensive disaster recovery capabilities of KS.

User-Friendly Management

KS offers a user-friendly solution for efficient management with EonOne and EonKube graphical user interfaces. EonOne provides comprehensive hardware management for compute, GPU, and storage resources. Users can effortlessly monitor the resource status of each node and the overall cluster, making it simple to identify hardware issues. This enhances management efficiency and ensures optimal performance across the system.

EonKube is designed for managing software, including VMs and all deployed applications. It provides a simplified Kubernetes application deployment, making it more accessible for enterprises by eliminating the need for complex configuration and coding. The EonKube dashboard offers a clear view of system resources, such as CPU and GPU usage for each application, allowing administrators to monitor and adjust resource allocation as needed. Users can also easily check for the latest versions of built-in applications maintained and verified by Infortrend. Updates can be applied with a single click, streamlining the process and eliminating manual version checks, update package searches, and testing.

BMC (Baseboard Management Controller) support allows IT teams to remotely manage and monitor KS systems in both data center and edge environments.



Flexible Hardware Options

KS offers seven compute node models across the KS 5000U and 3000U series with U.2 NVMe SSDs and configurable options for GPUs, allowing enterprises to select the model that best fits their application needs. All KS models come in a space-efficient 2U form factor and support 25GbE and 100GbE network interfaces.

Designed for high-performance workloads, the **KS 5000U** series is ideal for smart retail and edge AI applications. It includes the following models:

- **KS i 5008U / KSa 5008U** is designed as a GPU-intensive computing node, supporting up to four high-performance Nvidia GPU cards.
- **KS i 5016U / KSa 5016U** is a general-purpose computing node with two Nvidia GPU cards, delivering efficient performance for diverse workloads.
- **KS i 5024U** is a storage-oriented computing node supporting 24 SSDs.

Designed for edge deployments at the source of data generation, the **KS 3000U** series offers a short-depth 2U (50 cm) design and includes the following models:

- **KSa 3004U** supports up to two full-height 450W GPU cards in a compact edge computing platform.
- **KSa 3004UE** is a low-noise model operating at 55dB or less, designed for people-occupied environments such as offices and retail stores. It features low-power operation (down to 80W) and supports one GPU card.

Support for Cloud-Native and Traditional Applications

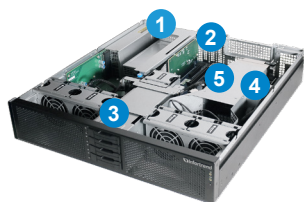
KS features a built-in Kubernetes platform for running cloud-native containerized applications. With a built-in hypervisor, KS provides support for traditional applications by running VMs. This facilitates enterprises to run all workloads on a single platform. Furthermore, KS offers a built-in Application Marketplace with a diverse selection of applications for multiple domains and industries. The Marketplace includes commonly used enterprise applications for retail and AI workloads, including store operations, video analytics, AI inference, and related task management. To minimize maintenance efforts, KS supports seamless one-click deployment and rolling updates, ensuring that applications stay up to date.

Easy Deployment

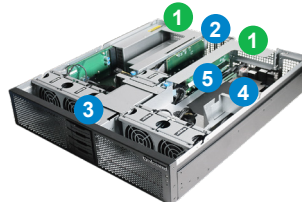
KS combines computing, storage, and Kubernetes platform within a single node appliance. This greatly simplifies deployment and management as KS eliminates the need for users to purchase these components separately and navigate through complex configurations, which can otherwise require substantial time, finances, and technical expertise. The platform features an intuitive installation wizard that guides users through the entire setup process, which is completed within 30 minutes. After setup, enterprises can immediately start installing and running applications.

KS 3000U Series

KSa 3004UE



KSa 3004U



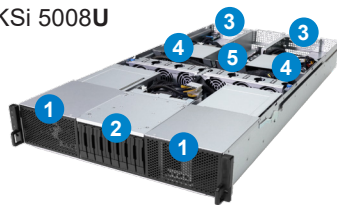
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|---|-----------------------------------|
| 1 KSa 3004UE: FHHL single- or dual-width GPU slot | 3 NVMe SSD slots |
| 1 KSa 3004U: FHFL dual-width GPU slot | 4 AMD EPYC™ 8004 Series Processor |
| 2 Network adapter slots | 5 DDR5 DIMM slots |

PHYSICAL SPECIFICATIONS

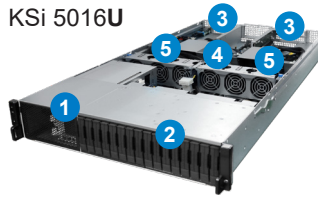
Product Series		KS 3000U	
Model		KSa 3004UE	KSa 3004U
Form Factor		2U 4-bay	2U 4-bay
Mounting Options		Desktop / Rackmount	Desktop / Rackmount
Processor		Single AMD EPYC™ 8004 Series Processors	
Processor Core Available		16 to 24 cores	16 to 64 cores
Cache Memory		• 6 x DDR5 DIMM slots • Default 128GB, up to 576GB DDR5 RDIMM	
Supported Drives		2.5" U.2 NVMe SSD	
		Note: 1. A minimum of four drives is required. 2. For the latest Compatibility Guide, refer to our official website	
PCIe Expansion Slots		• 1 x FHHL PCIe Gen5 x16 slot for GPU • 1 x HHHL PCIe Gen5 x16 slot • 2 x HHHL PCIe Gen5 x8 slots	• 2 x FHFL PCIe Gen5 x16 slots for GPUs • 1 x HHHL PCIe Gen5 x16 slot • 2 x HHHL PCIe Gen5 x8 slots
		Note: The number of supported network adapters per node via PCIe expansion slots depends on the deployment mode (standalone or cluster mode)	
Network Adapter Options		• Dual-port 25GbE SFP28 adapter • Dual-port 100GbE QSFP56 adapter	
		Note: Network adapters must be purchased from Infortrend.	
Max. FHHL Single- or Dual-width GPUs		1	0
Max. FHFL Dual-Width GPUs		0	2
System Fans		5	
Rear IO Ports		• 1 x RJ45 dedicated BMC/IPMI LAN port • 1 x RJ45 1GbE management port (shared with IPMI access) • 1 x RS232 serial port (COM) • 1 x VGA port • 4 x USB 3.2 Gen1 ports • 1 x RJ45 2.5GbE LAN port • 2 x RJ45 10GbE LAN ports	
Dimensions (W x H x D) (Without Chassis Ears and Protrusions)		445 x 86.8 x 498 mm	
Package Dimensions (W x H x D)		600 x 215 x 780 mm	
Power Supply	Power Supplies	2 x 1300W 80 PLUS Titanium redundant hot-plug	
	AC Input	100-127VAC/12A 200-240VAC/8.5A, 50/60Hz	
		Note: Please use 200-240VAC for the KS 3004U model	
Environmental (Without GPU)	Temperature	Operating: 10 to 35°C; non-operating: -40 to 60°C	
	Altitude	Operating: Sea level to 3,660m (12,000ft); non-operating: sea level to 12,192m (40,000ft)	
	Relative Humidity	5 to 95% non-condensing, operating and non-operating	
Safety Standards		• Electromagnetic compatibility: CE, BSMI, FCC	• Safety: BSMI, CB, UL

KSi 5000U Series

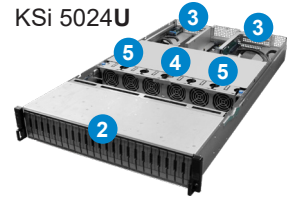
KSi 5008U



KSi 5016U



KSi 5024U

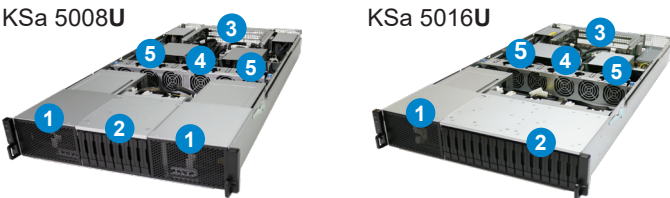


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| 1 FHFL dual-width GPU slots | 4 DDR5 DIMM slots |
| 2 NVMe SSD slots | 5 Intel® Xeon® Scalable Processor (4th or 5th Gen) |
| 3 Network adapter slots | |

PHYSICAL SPECIFICATIONS

Product Series		KSi 5000U			
Model		KSi 5008U		KSi 5016U	KSi 5024U
Form Factor		2U 8-bay		2U 16-bay	2U 24-bay
Mounting Options		Rackmount			
Processor		Dual 4th Gen Intel® Xeon® Scalable Processors	Dual 5th Gen Intel® Xeon® Scalable Processors	Dual 4th Gen Intel® Xeon® Scalable Processors	
Processor Core Available		12 to 32 cores	64 cores	12 to 32 cores	12 to 32 cores
Cache Memory		• 32 x DDR5 DIMM slots • Default 128GB, up to 2TB DDR5 RDIMM			
Supported Drives		2.5" U.2 NVMe SSD			
		Note: 1. A minimum of four drives is required. 2. For the latest Compatibility Guide, refer to our official website			
PCIe Expansion Slots		• 4 x FHFL PCIe Gen5 x16 slots for GPUs • 2 x FHHL PCIe Gen5 x16 slots • 2 x OCP NIC 3.0 PCIe Gen5 x16 slots	• 2 x FHFL PCIe Gen5 x16 slots for GPUs • 2 x FHHL PCIe Gen5 x16 slots • 2 x OCP NIC 3.0 PCIe Gen5 x16 slots	• 2 x FHHL PCIe Gen5 x16 slots • 2 x OCP NIC 3.0 PCIe Gen5 x16 slots	
		Note: The number of supported network adapters per node via PCIe expansion slots depends on the deployment mode (standalone or cluster mode)			
Network Adapter Options		• Dual-port 25GbE SFP28 OCP NIC 3.0 adapter • Dual-port 100GbE QSFP56 adapter			
		Note: Network adapters must be purchased from Infortrend.			
Max. FHFL Dual-Width GPUs		4	4	2	0
System Fans		6			
Rear IO Ports		• 1 x RJ45 dedicated BMC/IPMI LAN port • 1 x RJ45 1GbE management port • 1 x RJ45 serial port (COM) • 1 x Mini-DP port (supports VGA output) • 2 x USB 3.2 Gen1 ports (Type A)			
Dimensions (W x H x D) (Without Chassis Ears and Protrusions)		449 x 88 x 922 mm			449 x 88 x 852 mm
Package Dimensions (W x H x D)		596 x 262 x 1188 mm			596 x 262 x 1118 mm
Power Supply	Power Supplies	2 x 2700W 80 PLUS Titanium redundant hot-plug	2 x 3200W 80 PLUS Titanium redundant hot-plug	2 x 2700W 80 PLUS Titanium redundant hot-plug	2 x 1600W 80 PLUS Titanium redundant hot-plug
	AC Input	200-240VAC/16-13.5A, 50/60Hz	100-127VAC/18A, 200-240VAC/16A, 50/60Hz	200-240VAC/16-13.5A, 50/60Hz	100-127VAC/12A, 200-240VAC/10A, 50/60Hz
	Note: Please use 200-240VAC for the KS model				
Environmental (Without GPU)	Temperature	Operating: 10 to 35°C; non-operating: -40 to 60°C			
	Altitude	Operating: Sea level to 3,660m (12,000ft); non-operating: sea level to 12,192m (40,000ft)			
	Relative Humidity	5 to 95% non-condensing, operating and non-operating			
Safety Standards		• Electromagnetic compatibility: CE, BSMI, FCC • Safety: BSMI, CB			

KSa 5000U Series



- 1

FHFL dual-width GPU slots
- 2

NVMe SSD slots
- 3

Network adapter slots
- 4

DDR5 DIMM slots
- 5

AMD EPYC™ 9004 / 9005 Series Processor

PHYSICAL SPECIFICATIONS

Product Series		KSa 5000U	
Model		KSa 5008U	KSa 5016U
Form Factor		2U 8-bay	2U 16-bay
Mounting Options		Rackmount	
Processor		Dual AMD EPYC™ 9004 / 9005 Series Processors	
Processor Core Available		16 to 160 cores	
Cache Memory		• 24 x DDR5 DIMM slots • Default 192GB, up to 1.5TB DDR5 RDIMM	
Supported Drives		2.5" U.2 NVMe SSD	
		Note: 1. A minimum of four drives is required. 2. For the latest Compatibility Guide, refer to our official website.	
PCIe Expansion Slots		• 4 x FHFL PCIe Gen5 x16 slots for GPUs • 3 x FHHL PCIe Gen5 x16 slots • 1 x OCP NIC 3.0 PCIe Gen5 x16 slot	• 2 x FHFL PCIe Gen5 x16 slots for GPUs • 3 x FHHL PCIe Gen5 x16 slots • 1 x OCP NIC 3.0 PCIe Gen5 x16 slot
Network Adapter Options		• Dual-port 25GbE SFP28 OCP NIC 3.0 adapter • Dual-port 100GbE QSFP56 adapter	
		Note: Network adapters must be purchased from Infortrend.	
Max. FHFL Dual-Width GPUs		4	2
System Fans		6	
Rear IO Ports		• 1 x RJ45 dedicated BMC/IPMI LAN port • 1 x RJ45 1GbE management port • 1 x RJ45 serial port (COM) • 1 x DB15 VGA port • 2 x USB 3.2 Gen1 ports (Type A)	
Dimensions (W x H x D) (Without Chassis Ears and Protrusions)		449 x 88 x 922 mm	
Package Dimensions (W x H x D)		596 x 262 x 1188 mm	
Power Supply	Power Supplies	• Models with 160-core CPU: 2 x 3200W 80 PLUS Titanium redundant hot-plug • Other models: 2 x 2700W 80 PLUS Titanium redundant hot-plug	
	AC Input	200-240VAC/16-13.5A, 50/60Hz	
Environmental (Without GPU)	Temperature	Operating: 10 to 35°C; non-operating: -40 to 60°C	
	Altitude	Operating: Sea level to 3,660m (12,000ft); non-operating: sea level to 12,192m (40,000ft)	
	Relative Humidity	5 to 95% non-condensing, operating and non-operating	
Safety Standards		• Electromagnetic compatibility: CE, BSMI, FCC	• Safety: BSMI, CB

SOFTWARE SPECIFICATIONS

Management	EonOne, EonKube
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SOFTWARE LICENSE

EonSight		Optional	EonSight enables AI-driven system monitoring and analytics, providing anomaly detection, performance insights, and capacity forecasting to help optimize cluster stability and operational efficiency.
Application Services	AI	Optional	AI License enables one-click deployment of built-in AI applications via the App Marketplace, accelerating AI environment setup and supporting advanced data analytics and machine learning workloads.
	HPC	Optional	HPC License enables deployment and management of built-in HPC applications through the App Marketplace, supporting efficient job scheduling, workload monitoring, and centralized management of HPC data and tasks.
	Manufacture	Optional	Manufacturing License enables one-click deployment of built-in manufacturing applications via the App Marketplace, providing a streamlined way to support and manage manufacturing operations and workflows.

WARRANTY AND SERVICE

Service and Support	Standard Service	3-year limited hardware warranty and 8 x 5 phone, web, and email support (batteries are covered under warranty for 2 years)
	Upgrade or Extension Options	Warranty extension: Standard service can be extended up to 5 years. The following services can be upgraded to 5 years. • Upgrade: Replacement part dispatch on the next business day • Advanced service: Phone, web, and email support + onsite diagnostics on the next business day • Premium service: Phone, web, and email support + onsite diagnostics within 4 hours Note: Options may vary by region. For more details, please contact our sales representatives.
	Technical Support	Get information on system installation and maintenance, download technical documents and software, or issue a support ticket
	Product Services	Register products, download firmware, apply for licensing services, create product repair tickets, or check product repair status

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