

MODEL: KT-S100 SERIES

High-Performance Industrial Server

Mission-critical rackmount/embedded edge server for high-density computing & real-time telemetry.
Engineered with industrial-grade components, fault tolerance, and extended hardware product lifecycles.

High Compute Density

Multi-core processor architectures optimized for heavy edge workloads.

ECC Data Protection

Error-Correcting Code memory support prevents corruption during 24/7 tasks.

Redundant Power Options

Dual hot-swappable AC/DC PSUs for zero-downtime mission-critical power.

Hot-Swappable RAID

Front-accessible SAS/SATA/NVMe bays with RAID 0/1/5/10 hardware support.

Remote Management

Dedicated IPMI 2.0 / ASMB port for out-of-band monitoring and control.

Industrial Lifecycle

5-7 year long-term hardware support ensuring platform design stability.

CATEGORY	TECHNICAL PARAMETERS
Processor	Intel® Core™ Ultra 5 125H or Ultra 7 155H Processor (Up to 16 cores / 22 threads)
Server Board	Advantech / Kontron German-Engineered Server grade motherboard options
System Memory	Up to 512 GB DDR4 / DDR5 ECC Registered RDIMM / UDIMM
Storage & RAID	4x / 8x Hot-swappable 2.5"/3.5" NVMe / SAS / SATA III Bays; Hardware RAID 0, 1, 5, 10
Expansion	Multiple PCIe Gen4 / Gen5 x16 slots supporting full-height double-deck GPU cards
Network I/O	Quad GbE LAN + Dual 10GbE SFP+ / RJ45 + Dedicated IPMI Remote Management Port
Management	IPMI 2.0 compliant out-of-band management with KVM-over-IP support
Power System	100-240V AC or -48V DC Redundant Hot-Swappable 80-PLUS Gold PSUs (500W-1200W)
Chassis / Form	1U / 2U / 4U Heavy-Duty Industrial Rackmount Enclosure or Wall-Mount Chassis
Operating Temp.	0°C to +50°C (Extended Temp configurations available up to -20°C to +60°C)
Mechanical & Env.	Anti-vibration drive bays, washable dust filter, shock-isolated internal components
Operating System	Windows Server, Red Hat Enterprise Linux, Ubuntu Server, VMware ESXi, Proxmox

Factory Automation & SCADA

Mining & Remote Telemetry

Edge Server Virtualization

Centralized Video Surveillance

AI Model Training & Inference

Healthcare PACS & Ops

Transportation Systems

University & R&D Clusters

Ready to Configure Your Server Solution?

Ketrion Technologies provides custom integration, long-lifecycle support, and application engineering.

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