

MODEL: KT-C100 SERIES

Rugged Fanless Edge AI Computer

High-performance, compact computing platform engineered for continuous 24/7 mission-critical deployment.

Housed in a precision-machined aluminum heatsink enclosure for extreme thermal management.

Fanless Thermal Design

Zero moving parts, aluminum passive heatsink chassis for 24/7 reliability.

Edge AI Acceleration

Intel® AI Boost NPU + Arc™ GPU for low-latency local inference processing.

Wide DC Power Input

9V to 34V DC wide-range input with USB-C Power Delivery (140W).

Industrial Durability

Shock & vibration proof construction built for harsh deployment environments.

High-Speed Expansion

PCIe Gen5 x8 open slot, M.2 5G slot with SIM, and M.2 Wi-Fi/BT module.

Multi-Display Output

Drives up to 4× 4K60 displays or 2× 8K independent display outputs.

CATEGORY	TECHNICAL PARAMETERS
Processor	Intel® Core™ Ultra 5 125H or Ultra 7 155H Processor (Up to 16 cores / 22 threads)
AI & Graphics	Integrated Intel® AI Boost (NPU), Intel® Arc™ Graphics Architecture
Motherboard	Kontron Industrial Grade (German Engineering) for scalable 24/7 reliability
System Memory	Up to 96 GB DDR5-5600 via 2 × DDR5 SO-DIMM slots
Storage	2 × M.2 Key-M (PCIe Gen4 x4 NVMe SSD) + 2 × SATA III (6 Gb/s), RAID 0/1 support
Expansion	1 × PCIe Gen5 x8 (open x16), M.2 Key-B (5G + Nano SIM), M.2 Key-E (Wi-Fi/BT)
Networking	Dual Ethernet: 1 × Intel Gigabit LAN + 1 × Realtek 5GbE WoL, PXE Boot, Intel vPro®
I/O Interfaces	Up to 4 × USB 3.2 Gen2, USB-C/Thunderbolt 4, 2 × COM (RS232/422/485), GPIO, HDMI/DP
Power System	Wide-range 9–34 VDC Input Supports USB-C Power Delivery up to 140 W
Operating Temp.	0°C to +60°C (Motherboard spec) Continuous 24/7 Operation
Mechanical & Env.	Fanless aluminum passive heatsink chassis, Shock and Vibration proof design
Operating System	Windows® 11, Windows® 10, Linux® (Ubuntu / RedHat industrial distributions)

Industrial Automation

Mining & Heavy Equipment

Edge AI & Computer Vision

Video Analytics & Security

Autonomous Systems

Industrial IoT & Machine Control

Healthcare Operations

Research & Universities

Ready to Configure Your System?

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

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