

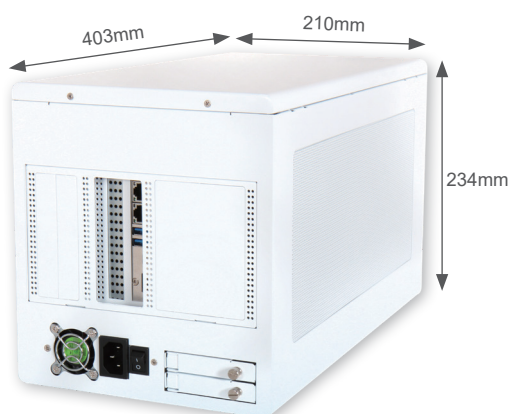
MEDS-7081



MEDS-7081 is a rugged, medical-grade edge computing platform designed to accelerate advanced AI applications through its high-performance architecture and expandability. The system integrates a PICMG 1.3 single board computer and features a dedicated PCIe x16 slot, providing flexible support for dual-layer AI accelerator cards such as high-end GPUs, VPUs, or FPGAs. This design is essential for ultra-low-latency edge AI applications, including real-time lung CT nodule detection and precise tumor segmentation in medical imaging. To ensure operational stability, the system is equipped with a medical-grade power supply (up to 900W) and an advanced thermal management solution, allowing it to maintain outstanding stability and reliability under sustained, high-intensity computational workloads, meeting the demands of medical environments.

FEATURES

- Powerful Full-size SBC supporting high-performance CPUs up to 65W
- Add-on card solution with modular system design
- Streamlined chassis assembly design and innovative thermal solution
- Equipped with a 900W medical-grade power supply for enhanced reliability



System	
Processor	Intel® 14th Generation Core processors i9/ i7/i5/i3, up to 65W
Memory	2x DDR5 SO-DIMM 5600 memory up to 64GB
Storage	1x M.2 Type M 2280, 2x 2.5" SSD
Expansion Interface (Optional)	1x PCIe x16 Gen5, 1x PCIe x4 Gen3 (x4 or x1 signal selectable) or 1x PCIe x1 Gen3

I/O Interface	
USB	2x USB 3.2 (Gen2) ports 1x USB 3.2 (Gen2 x2) type-C port
Ethernet	2x i226LM connector based on Gigabit Ethernet
Display	1x HDMI up to 4096x2160 @ 30Hz

Power Supply	
Power Input	Power cord AC plug
Power Limit	900W
Power Supply	Flex ATX PSU

Mechanical/Environment	
Operating Temperature	0°C ~ 40°C
Storage Temperature	(-)40°C ~ 80°C
Dimension	210(W) x 403(D) x 234(H)mm
Weight	10.1 kg
OS Support	Windows 11

