

Medical AI Box PC



MAB-T600-B1

AI Edge Computing for Precision Surgical Applications

The MAB-T600-B1 medical-grade computing platform can be applied to surgery navigation and robot-assisted systems, assisting surgeons in performing accurate, efficient, and safer clinical operations. Designed for real-time edge performance, it processes medical imaging and sensor data directly at the point of care to support faster, more precise decision-making.

The system is powered by Intel® Core™ Processors (Series 2), 14th Gen Intel® Core™ processors, and the Intel® R680E chipset, delivering high-performance hybrid computing with integrated Intel® UHD graphics based on Xe architecture. With up to 128GB DDR5 ECC memory, multiple PCIe expansion slots for GPU integration, and support for four 4K displays, it enables advanced visualization and AI-driven workflows.

Built to meet stringent medical certifications, the platform provides the reliability, scalability, and performance required for next-generation intelligent healthcare environments.



SmartCare at the Edge: Medical-grade reliable Box PC accelerated by local AI intelligence.

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Processors



Intel® R680E
Chipset



Intel® UHD
Graphics



Intel® Ethernet

Key Features

Empowered by Intel.



Reliable System
Operation



Rich I/O and
PCIe Slot
Design



High-Performance
Computing



Medical-Certified
Design

Avalue MAB-T600-B1



intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Intel® Core™ Processors (Series 2) 14th Gen Intel® Core™ processors
Graphics	Intel® Integrated UHD Graphic with Xe Architecture
Memory	4 x DIMM slots support Dual Channel DDR5 memory speed up to 4400MHz with UDIMM, up to 128GB, with ECC support
Storage	1 x M.2 M-Key 2242/2280/22110 NVMe (Gen 4 PCIe x4 + SATA III) 1 x M.2 M-Key 2242/2280/22110 NVMe (Gen 3 PCIe x4 + SATA III) 2 x 2.5" SATAIII HDD/SSD drive (3.5" HDD optional)
Wireless Network	1 x M.2 E-Key 2230 with CNVi support (PCIe x1 + USB 2.0)
LAN	2 x 2.5 Gigabit Intel® Ethernet Controller I225-LM / I226-LM
Operating / Storage Temp.	0°C ~ 40°C / -30°C ~ 70°C
Dimension (W x D x H)	330mm x 344mm x 160mm
Weight	7Kg
OS	Win10/Win11/Linux
I/O Options	2 x USB 2.0 (front I/O), 6 x USB 3.2 Gen 2x1 ports, 1 x USB 3.2 Gen 2x2 type-C Line-out, Mic-in 4 x DP++

Learn More

[Avalue MAB-T600-B1](#)

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