



## Avalue News May 2025



### **Avalue Launches Fanless NUC-ADN Embedded System Powered by Intel® Alder Lake-N, Ideal for Smart Retail, Healthcare, and Industrial Automation**

Designed with Intel® Alder Lake-N processors at its core, the NUC-ADN offers high performance, low power consumption, and superior durability.

It is optimized for applications in smart retail, healthcare, self-service kiosks, and industrial automation—especially where space constraints and 24/7 reliable operation are required.

### **Compact and Silent Design, Built for Reliability**

The NUC-ADN inherits Avalue's industrial-grade standards with a compact palm-sized form factor (115 × 111 × 45mm), enabling easy deployment in space-limited or harsh environments. Its fanless, ventless design ensures quiet operation, reduced maintenance, and extended system longevity. The system is tested to withstand 55G shock and 5G vibration, offering excellent mechanical resilience.

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### **Industrial-Grade Durability**

Engineered for mission-critical environments, the NUC-ADN meets rigorous reliability and stability requirements. The sealed, fanless enclosure effectively prevents dust or debris intrusion, making it suitable for demanding factory floors, warehouses, medical facilities, and automation sites. It passes strict compatibility and endurance tests, providing long-term stability and rugged performance.

### **Robust Computing with Versatile I/O**

Powered by Intel® Alder Lake-N and integrated Intel® UHD Graphics, the system supports up to 16GB DDR5 4800MHz memory via a single SO-DIMM slot, ensuring efficient multitasking and real-time data processing.

This makes it ideal for healthcare applications that demand intensive computation and high-accuracy diagnostics.

Rich I/O includes 2 x 2.5GbE LAN, 5 x USB 3.2 ports (including 1 x Type-C), 2 x COM ports, and an audio combo jack. It supports up to three simultaneous displays (2 x HDMI 2.0b and 1 x DP via Type-C), allowing seamless integration with peripherals such as sensors, card readers, and cameras. This flexibility makes it well-suited for retail kiosks, smart vending machines, and automation control systems.

### **Versatile Deployment with Trusted Security**

The NUC-ADN supports both VESA and DIN rail mounting, offering flexible installation options. It is equipped with TPM 2.0 and onboard hardware encryption to secure sensitive data and ensure system integrity. With M.2 Key-E for wireless expansion and 2.5" storage support, the system can easily adapt to hotel check-in kiosks, telehealth terminals, surveillance nodes, and other edge AI applications.

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