



Avalue Technology Newsletter June 2024

Avalue Presents AIB-NVAO, AI Box PC for Autonomous Machines Intelligence

(Press Release – May 31st , 2024) – Avalue Technology Inc. (TAIEX: 3479-TW), a global leader in industrial computing solutions, announced the launch of the AIB-NVAO, an embedded AI industrial computer specifically designed for autonomous machine intelligence. This high-performance platform integrates cutting-edge AI computing capabilities, rich expansion interfaces, and industrial-grade durability, making it ideal for applications in various industries, including automotive, smart logistics, agriculture, and smart manufacturing.

Powered by the NVIDIA AGX Orin module, the AIB-NVAO delivers an astonishing 275 TOPS (INT8) of computing power, representing an 8x improvement over its predecessor. This exceptional performance supports high-speed interfaces for multiple sensors, allowing complex AI computing tasks to be performed effortlessly. Users can choose between a 32GB 200 TOPS or a 64GB 275 TOPS version to meet their specific needs. Such powerful performance is sufficient for real-time analysis of complex data, ensuring the safe and smooth operation of autonomous vehicles or machines.

The AIB-NVAO offers exceptional expansion capabilities and rich interfaces to meet diverse industry application requirements. It features 8 GMSL2 channels, 5 CAN FD (Controller Area Network) interfaces, and supports 4K data transmission, enabling high-quality image data acquisition. In addition, it provides 32GB or 64GB of Jetson AGX Orin LPDDR5 memory and 64GB of eMMC 5.1 storage, offering outstanding storage and memory capabilities. To address flexible expansion needs, the AIB-NVAO offers 1 HDMI 2.0, 4 Gigabit Ethernet interfaces, 2 USB3.0, 6 RS232/RS485/Debug interfaces, 1 mini-PCIe slot for WIFI/4G, 1 M.2 M key 2280 (2280, PCIe x4), and 1 Nano SIM slot. Users can seamlessly expand according to specific application requirements, and easily integrate various sensors and peripherals, making it ideal for applications such as ADAS, remote operation, AMR, or autonomous vehicles.

info@hightechnordic.com

+4610-177 58 00



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Furthermore, designed to withstand extreme conditions, the AIB-NVAO adopts a rugged industrial design, capable of operating within a wide temperature range of -25°C to 70°C (-13°F to 158°F). This ensures efficient and smooth operation even under high workloads and harsh environmental deployments. Moreover, the AIB-NVAO supports Ubuntu Jetpack (version 5.0 and above) and passes with CE and FCC Class B certifications, further enhancing its stability and reliability for industrial applications.

As more autonomous machines and self-driving technologies emerge, the AIB-NVAO, with its high-performance computing capabilities, versatile expansion interfaces, robust software support, and industrial-grade durability, will play a pivotal role in enabling these technologies. It will bring about innovation and transformation across various industries.

Learn more about tailored business solutions on Avalue Website, or contact us via our online contact form.

info@hightechnordic.com
+4610-177 58 00