



For mission-critical applications



(Source: Forecr)

The Milbox-Agxmax computer by Forecr (Estonia/Turkey) is engineered for Edge AI applications. Featuring Gigabit-Ethernet ports, it delivers bandwidth for high-speed data processing and real-time decision-making. The product comes with two CAN interfaces to connect it to military (in-vehicle) networks. It includes on-board CAN transceivers. The ruggedized device is also intended for aerospace applications. It has two dual M.2 expansion slots, supports SD cards, and provides a camera expansion connector. The fanless Edge-AI computer is powered by Jetson AGX Orin processors from Nvidia (U.S.A.).

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Edge-AI gateway with two CAN ports

Liebherr Components (Switzerland) offers the LEG4IT Edge-AI gateway developed for mobile machine applications. It is based on the Dragonwing QCS6490 processor by Qualcomm. The control unit with IoT (Internet of Things) functionality measures 320 mm x 305 mm x 90 mm. The company also provides the LEG4AI edge controller powered by an Nvidia Xavier processor.

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CAN-connectable Edge-AI boards

Aaeon (Taiwan) with the European sales office in Netherlands has developed a broad range of Edge-AI board-level products, featuring different AI processors from Intel and Nvidia. The company also provides them in ruggedized housings. Some of these products implement CAN ports. This includes the Niky-2105/2155/2215-Nano control units scheduled for production within 2026. They are powered by Nvidia's Jetson Orin Nano processors.

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AI-based radar sensor



(Source: D3 Embedded)

D3 Embedded (U.S.A.) has developed a sensor based on AWR1843AOP or IWR6843AOP radar chips by Texas Instruments (U.S.A.). These chips feature an embedded CAN interface. The offered radar sensor modules integrate a DSP (digital signal processor), a microcontroller with neural processing capability, a radar accelerator as well as an antenna array. There are variants with 60-GHz and 77-GHz radar chips available. The embedded CAN interface enables an integration into in-vehicle networks of cars, AGVs (automated-guided vehicles), etc. The company also offers radar sensors powered by Nvidia processors.

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AI-Powered controllers with CAN connectivity



(Source: Aaeon)

The Taiwanese company Aaeon has launched host controllers equipped with the Nvidia Jetson Orin NX processor, featuring AI processing capability. Some members of the Boxer-865xAI-Plus series provide a CAN interface. It is available at a 9-pin D-sub connector. Primary differences between the products are their form factors and the functions they offer. The smallest measures 125 mm x 90 mm x 56 mm. They are specified for operating temperatures from -25 °C to +55 °C. The voltage input ranges from 12 V to 24 V. The products are in mass production. *hz*

Fanless edge-AI box computer with CAN ports



(Source: Aaeon)

Aaeon (Taiwan) has released the Boxer-8653AI-Plus host controller, suitable for edge-AI (artificial intelligence) applications. The computer platform is powered by the Jetson Orin NX processor from Nvidia. It is intended for applications, using multiple cameras. For connecting of peripherals, the device provides among other interfaces a CAN interface.

Established in 1992, the Taiwanese company offers a broad range of edge-AI and IoT (Internet-of-Things) products. Several of them (e.g., Boxer-8645AI and VPC-5640S) support CAN communication. These products address in-door autonomous-driving passenger vehicles and airport service robots, for example, respectively automated-guided vehicles (AGVs) on factory floors and in logistic centers. *hz*

Edge AI system for sealed environments



(Source: Bressner Technology)

In many industrial and mobile applications, active ventilation or open enclosures are not an option, especially in environments with dust, moisture, or vibration. For these scenarios, Bressner Technology (Germany), together with its partner Neousys Technology (Taiwan), has introduced the NRU-160-FT series. The compact, fanless edge AI computers are optimized for installation inside fully enclosed or sealed metal housings.

Powered by Nvidia Jetson Orin NX or Orin Nano modules, the NRU-160-FT series delivers up to 100 Sparse TOPS (Tera operations per second) of AI inference performance while consuming 25 W. Its flat heatsink design is engineered to conduct heat directly through the mounting surface to the enclosure, which is a key benefit for operation in sealed metal housings where active cooling is not possible. This allows the systems to operate at ambient temperatures of up to +70 °C without throttling. With a footprint of 199 mm x 136 mm x 49 mm, the series integrates seamlessly into mobile platforms or control cabinets. M12 and Fakra connectors enable robust, vibration-resistant connections for industrial and in-vehicle applications.

The two model variants are designed for different integration requirements and with four AI module options each. The NRU-161V-FT features six GMSL2 automotive camera inputs via Fakra Z connectors, compatible with IMX390, ISX031, and IMX490 CMOS sensors. The NRU-162S-FT provides four PoE (power over Ethernet) and 1-Gbit/s ports for IP or industrial GigE cameras, as well as an additional M12 1-Gbit/s port for high-speed communication with Lidar systems or other devices. Both models offer CAN FD and EIA 232 interfaces (also known as RS-232), an 8-V_{DC} to 35-V_{DC} power input with ignition control, and expansion options via mini-PCIe and M.2 B-Key slots for 4G/5G or wireless modules.

The systems are designed for dusty, humid, or vibration-prone environments, making them suitable for autonomous vehicles, smart city infrastructure, and agricultural control systems. Franz Bernhard, Account Manager at Bressner Technology, explained: "With the NRU-160-FT series, we are addressing a clear market need for high-performance edge AI computers that can operate in fully sealed enclosures. The flat heatsink design enables efficient heat dissipation through the cabinet surface, which is essential for outdoor and in-vehicle environments where reliability is critical." *of*