

BOX PC

Embedded fanless computer

The embedded PC Boxer-8222AI by Aaeon is designed for AI (artificial intelligence) edge computing applications. Beside others, it features one CAN interface.

The device integrates the Nvidia Jetson Nano SoC (system (Source: Aaeon) on chip). The SoC utilizes the quad-core ARM Cortex-A57 Mpcore processor, which allows processing speeds up to 472 Giga-Flops. Thus, it is capable of operating multiple neural networks or processing several high-resolution images at the same time. The PC also features an onboard 4-GiB RAM and a micro-SD card slot supporting up to 32 GiB of storage.

The computer features a CAN interface, four USB 3.2 ports, EIA-232 port, as well as LAN, and HDMI ports. It also includes a 40-pin I/O connector for sensors and controllers. Wifi expansion slot and two ports for connection of antennas are available. The integrated PoE PD (power over Ethernet powered device) LAN port allows for deployment without a dedicated power supply when connected to a PSE gateway (power supply equipment). The device utilizes the 802.3at standard, supporting power input of 25,6 W to power the system and connected devices such as USB cameras and sensors.

The wall-mountable PC is designed to operate in rugged environments. It can operate at temperatures from -10 °C to +70 °C without a loss of performance. Its size also makes it possible to deploy it in tight spaces. Power supply of 12 V_{DC} to 24 V_{DC} is possible. The power-status is indicated via an LED. Linux 4.9 (or above) is the supported operating system.

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