Boxer-8240AI brings performance to the Edge with the NVIDIA Jetson AGX Xavier

Designed to combine AI, control and communication into a single platform solution

RDS is pleased to announce the availability of the BOXER-8240AI from AAEON, which features the NVIDIA Jetson AGX Xavier SoC. It comes in a compact and industrial rugged design which means developers will be able to bring more applications to the edge or power more applications with a single device.

Featuring the Volta GPU, which has an amazing 512 CUDA cores and 64 Tensor cores, means AI processing speeds up to 32 TOPS are assured. With various power modes available, the SoC gives users the flexibility to adjust the system to their requirements.

The Jetson AGX Xavier is able to operate in ambient temperatures from -10oC to 55oC due to the Boxer-8240AIÂ's fanless design which also keeps out dust and other contaminants thereby providing reliable, low maintenance operation.

Designed to combine AI, control and communication into a single platform solution, the BOXER-8240AI offers a range of I/O features which have been designed to connect and power a wide range of sensors, cameras and more. With 4 PoE Gigabit Ethernet ports, each designed to deliver 1Gbps, the Boxer-8240AI is able to power connected cameras whilst at the same time ensuring delay-free streaming for real-time video processing. A 40-pin I/O connector and dual COM RS-845 ports allow sensors and machines to be connected for providing feedback and control for applications such as AOI and robotic control.

Additional features for the Boxer-8240AI are the USB3.2 Gen 1 and USB2.0 Type A ports, two USB3.2 Gen 1 Type C ports and audio line in and audio line out ports. Expandability is possible with the M.2 2230 E-key making it ideal for wireless communication giving the Boxer-8240AI the ability to be used as an Edge Network Gateway. Flexible and fast storage is another feature with the M.2 2280 NVMe slot and SATA III (6.0 Gbps) storage, it is also easy to install with easy to access panels on the base of the system.

Applications such as AGV pathfinding or collision avoidance for smart factory or running multiple AI inferences side by side to provide greater coverage for security and crowd monitoring are all within the capabilities of this feature full device.