Eurotech announces BoltGPU 10-31, a rugged, fanless Subsystem for AI and Machine Vision at the Edge

With Rolling Stock and Automotive certifications and multiple connectivity options, it enables power efficient, GPU-accelerated workloads in harsh operational environments

Amaro (Italy), April 8th, 2021 – Eurotech, a long-time leading provider of embedded computing systems and leader in Internet of Things (IoT) enablement, announces its newest GPU-accelerated Subsystem for AI applications at the Edge and on vehicles.

The BoltGPU 10-31 is powered by NVIDIA Jetson Xavier NX and combines a 6-core, high-performance ARM CPU with a 384-core GPU and 48 Tensor Cores, offering exceptional power efficiency and up to 21 TOPS of accelerated computing.

Fanless and very rugged, the BoltGPU 10-31 allows the simultaneous execution of neural models and the processing of multiple high resolution, high frame rate sensors, making it the ideal platform for AI and Machine Vision workloads in harsh environments.

The BoltGPU 10-31 has 16 GB of eMMC that can be further expanded with an internal, high speed NVME that provides additional storage for video streams and sensor data. A 4-position mini FAKRA connector provides up to 4 GMSL camera inputs; additionally, 3 GbE interfaces offer fast connectivity to the network and to IP cameras. USB3 Cameras can also be connected, thanks to dual USB3.1 Gen 2 ports (noise and surge protected); other interfaces include: isolated CAN-FD, Optoisolated DIO and video out.

Wireless connectivity capabilities are also very complete: the BoltGPU 10-31 provides Wi-Fi 6 and Bluetooth 5.1; an optional LTE cellular adds even more flexibility, while a multi-constellation GNSS with Untethered Dead Reckoning provides geolocation (factory option: high precision RTK GNSS).

"The BoltGPU 10-31 is a workhorse for GPU-accelerated workloads both on-vehicle and in harsh environments" said Pierfrancesco Zuccato, Senior Product Manager at Eurotech. "It's rugged, fanless and very compact but at the same time it provides cutting edge features and efficiency at the Edge, where ease of deployment and reliability are a must".

The unit features rugged M12 connectors and is EN50155, EN45545 and E-Mark certified; it has a wide range power input (24-110VDC, EN50155) with ignition sense and EN50155 OT3 operating temperature range (-25 to +70°C) making it suitable for Rolling Stock, Automotive and Heavy-Duty applications.

The BoltGPU 10-31 shares the same form factor of the [BoltGATE 20-31](#) and of its expansion modules, making it possible to create hybrid architectures with extra features.

Availability: Q4'21

About Eurotech

Eurotech (ETH:IM) is a multinational company that designs, develops and supplies Edge Computers and Internet of Things (IoT) solutions – complete with services, software and hardware – to system integrators and enterprises. By adopting Eurotech solutions, customers have access to IoT building blocks and software platforms, to Edge Gateway to enable asset monitoring and to High Performance Edge Computers (HPEC) conceived also for Artificial Intelligence (AI) applications. To offer increasingly complete solutions, Eurotech has activated partnerships with leading companies in their field of action, thus creating a global ecosystem that allows it to create "best in class" solutions for the Industrial Internet of Things. [Learn more](#)

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