Eurotech and Lynx Software Technologies announce a technological partnership to deliver Functional Safety enabled packages that include rugged hardware, software and services

Eurotech and Lynx Software Technologies partnership combines cutting edge hardware, software and services to deliver complete building blocks to System Integrators

Amaro (Italy), December 1st, 2020 – Eurotech, a leading provider of rugged and industrial-grade embedded boards and systems, Edge computing platforms and Internet of Things (IoT) enablement solutions, announced today that it has partnered with Lynx Software Technologies, an innovator in modern platform software technologies.

Building a Functional Safety (FuSa) certifiable system is a very complex and time-consuming task, that presents challenges at multiple levels: starting from the hardware platform and going all the way to the top of the software stack running on the platform. All the layers in the stack need to comply with design and implementation specifications and standards that are specific to use cases and vertical industries.

The goal for Eurotech and Lynx Software Technologies is to revolutionize the development, maintenance and upgrade workflows for FuSa certified systems design by packaging most of the design complexity and challenges in a single package. This package combines FuSa enabled embedded modules with a complete software stack and tools (Type 0 hypervisor, management, libraries and certification). This technology will be optimized for deployment on a range on Intel-based processors to enable customers to reuse their proven software across a diverse range of system cost and performance points.

"We want to dramatically accelerate and simplify the development cycle of Functional Safety systems," said Giuseppe Surace, Eurotech CP&MO. "We have created rugged, embedded modules that extend popular and emerging standards like COM Express and COM-HPC with proprietary, FuSa-specific interfaces, effectively delivering to the customer an incredibly rich and complete foundation for Edge system development".

Traditionally, Functional Safety systems were designed to be standalone and were expensive to maintain or upgrade. New systems must allow consolidation of mixed criticality workloads (safety and non-safety workloads running on the same multicore processor) because of the resources and performance provided by the hardware platform and the capability of the software components to completely partition the hardware resources required by each of the workloads. This allows the deployment of SIL2 and up to SIL3

applications alongside non-critical workloads on the same device, greatly reducing the architectural complexity, cost, and number of points of failure.

"We applaud Eurotech's aligned vision and passion to accelerate the realization of mission critical edge solutions for markets such as Industrial, automotive and A&D", said Pavan Singh, Vice President, Product Management. "Providing proven hardware and software components for Cloud-connected systems will empower system integrators to create innovative architectures for running AI/ML, communications and security workloads while ensuring that the Functional Safety workloads continue to comply with the requirements".

Professional services are also available to customers that desire to have further flexibility and support, like carrier board design, deep hardware customization, locked BOM, life-cycle extension, IoT integration, branding, and much more.

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

About Lynx Software Technologies

Since 1988, companies have entrusted Lynx Software Technologies to deliver modern platform software technologies that accelerate the development, certification and deployment of robust, safety-critical, high-availability systems for the avionics and defense industries. The FAA has recognized our industry leadership by awarding Lynx the first and only FAA Reusable Software Component certificate. In an increasingly connected world, the applicability of Lynx technology is broadening to specific applications in automotive, industrial IoT and IT infrastructure. Together with our growing set of technology partners, Lynx is realizing a new class of Mission Critical Edge systems, delivering deterministic real-time, safe, secured and trusted decision making.

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