

PRESS RELEASE

EUROTECH INTRODUCES BOLTCOR 45-10: A FANLESS, RUGGED, AND MODULAR EDGE SERVER FOR INTELLIGENT RAILWAY OPERATIONS

Enabling reliable on-board data processing, secure connectivity and long-life support in rolling-stock environments.

Amaro (UD), Italy, September 17, 2026 - Eurotech introduces and presents at the upcoming InnoTrans in Berlin, the BoltCOR 45-10: a compact, fanless and ventless edge server designed to bring high-performance computing, secure data processing and flexible connectivity to railway applications.

Powered by Intel® Core™ Ultra Series 3 processors with integrated AI GPU and NPU acceleration, the BoltCOR 45-10 combines industrial-grade computing with modular storage and high-speed networking capabilities. Its rugged 3U, short-depth form factor is designed to fit in rail cabinets; its fanless design improves reliability and operative life expectancy. The BoltCOR 45-10 is EN 50155 certified, supporting extended temperature ranges (OT4+ST2) and is optionally IEC 62443-4-2 SC-L2 Host Certifiable, addressing the lifecycle, serviceability and cybersecurity requirements of modern rolling stock equipment.

The BoltCOR 45-10 is the first of the new modular BoltCOR 45-XX product family, designed to address different railway computing requirements through a common, scalable architecture. The family will also include systems, passive cooled, with modular GPUs, for demanding physical AI applications requiring further acceleration with additional 200+ TOPS.

The BoltCOR 45-10 is designed to help railway operators and system integrators bring analytics closer to where data is generated, providing a flexible foundation for processing large volumes of operational data locally on trains and other railway vehicles.

Designed for compute-intense use cases and demanding applications, its on-board processing capabilities support demanding applications like near real-time condition monitoring, passenger-flow control, predictive maintenance, onboard diagnostics, AI-based intelligent assistants. It allows workloads consolidation and provides a scalable hardware foundation for current and future railway services.

TECHNICAL FEATURES

- Intel® Core™ Ultra Series 3 processor, with configurations up to 16 cores/16 threads, integrated GPU and NPU.
- Up to 64 GB of soldered LPDDR5X memory with IB ECC protection and PCIe Gen5 NVMe storage with RAID 0/1 support.
- High-speed Ethernet connectivity, with configuration-dependent 2.5 GbE and 10 GbE interfaces.
- Optional 4G/5G cellular connectivity, Wi-Fi 6E, Bluetooth 5.x and UDR GNSS.
- Passive, fanless and ventless cooling, operating at EN 50155 OT4 (-40° C to +70° C) + ST2 (switch-on extended 85°C)
- Wide Range 24-110VDC, EN 50155 Class S2 railway power supply.
- TPM 2.0, secure and measured boot, and always-on antitamper event monitoring.
- Designed for railway requirements including EN 50155, EN 45545, EN 50121 and EN 61373; IEC 62443-4-2 SC-L2 host-certifiable.

The BoltCOR 45-10 and the wider BoltCOR 45-xx family renew and expand Eurotech's railway and rolling stock portfolio. They allow consolidating applications that today run on several separate computational units into a single powerful computing platform – fewer systems on board, simpler architecture, easier maintenance, better to secure and cleaner long-term support.

“Thanks to the latest processor and GPU offerings our technology partners are providing to us, and the Eurotech experience in designing and producing rugged, fanless secure products with long term support, our customers can create a reliable, powerful, scalable and cybersecure application consolidation engine and add next generation AI onboard applications. This is a further step in turning the latest technologies into measurable value for our customers.” Said *Livio Paradiso*, Head of Products & Business Development at Eurotech.

Early sample availability: Q2 2027 and mass-production: Q3 2027

To learn more about the BoltCOR 45-10 click [here](#)

*Discover our new product at InnoTrans 2026, taking place in Berlin from September 22–25.
Visit Eurotech at Hall 4.1, Booth 220, to see it firsthand.*

Eurotech

Eurotech is a multinational company that designs and develops edge computing platforms and systems integrating hardware, software, AI, cybersecurity and services. Eurotech solutions enable intelligent data processing close to operational infrastructures, supporting applications in industrial, transportation and energy sectors, as well as other high-reliability environments. Eurotech works with leading technology partners worldwide, developing a global ecosystem for the delivery of integrated Edge AI and Internet of Things (IoT) projects and solutions.

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