Eurotech Extends its Portfolio of Railway-certified Modular IoT Edge Gateways with the BoltGATE 20-31 Family

The BoltGATE 20-31 Family consists of a main CPU Module and of Expansion Modules offering additional features and interfaces

Amaro (Italy), March 31, 2020 – Eurotech, a leading provider of embedded components, systems and Internet of Things (IoT) solutions, today announces a new family of Modular IoT Edge Gateway. The new BoltGATE 20-31 family provides a modular solution that addresses the challenges of the next-generation applications for smart transportation by combining hardware and software for Edge processing and Cloud connectivity.

The new family of the BoltGATE 20-31 allows huge configuration flexibility with a modular concept. Starting from the main CPU Module that can be used stand alone, and by adding all the Expansion Modules in order to take advantage of all the additional features.

The BoltGATE 20-31 System consists of the BoltGATE 20-31 Module, which is the main CPU Module, and a wide set of Expansion Modules.

The main CPU Module of the BoltGATE 20-31 is based on the Intel® Atom™ E3900 processor and will be available in the following configurations:

- Two Wi-Fi/BLE and Cellular LTE Cat4 Global variants based on 2 Cores or 4 Cores CPU

- One MVB + Cellular LTE Cat4 Global variant based on a 4 Cores CPU

Both configurations include an high-accuracy GNSS receiver supporting GPS/GLONASS with UDR (Untethered Dead Reckoning) mode and security features such as the TPM 2.0. A railway-certified power supply is integrated in the Main CPU Module.

The Expansion Modules will provide the following functions:

• BoltAIR 20-31: Wireless units and an odometer input

• BoltSER 20-31: Serial & CAN interfaces

• BoltIO 20-31: Digital I/Os

• BoltNET 20-31: Gigabit Ethernet ports

• BoltSTOR 20-31: Storage expansion module

All the Expansion Modules of the BoltGATE 20-31 family are fanless, compact and will be powered by the Main CPU Module.

As for all the families of Eurotech's IoT Edge Gateways also the BoltGATE 20-31 it is enhanced by [Eurotech's IoT Edge Framework, Everyware Software Framework (ESF)](). ESF makes the BoltGATE 20-31 a fast go-to-market solution for IoT transportation applications such as passenger infotainment and entertainment, train-to-ground communications, and fleet management. The Java-based IoT Edge Framework provides a friendly web-based user interface to visually compose powerful data flows to acquire data from the bus, filter, aggregate and analyze it at the Edge, and publish it to the Cloud though the popular MQTT protocol.

"By introducing the BoltGATE 20-31, Eurotech once again confirms its experience in delivering top-class products addressing the railway applications and its ability to fulfill the industry's demanding requirements with innovative and long-lasting solutions" said Massimiliano Marrone, Eurotech's Boards & Systems Product Manager.

For customers requiring more configuration flexibility, Eurotech Professional Services offer an extensive number of options for both hardware (additional features, custom front panel/connectors, branding) and software (customized application images).

BoltGATE 20-31 will be available in Q2 2020.

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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