Everyware IoT in Transportation and Mobility

All transportation systems, such as railways, buses and airplanes require complex infrastructures with a wide and diverse range of equipment.

Eurotech products enable multiple transportation solutions including digital signage, passenger information displays, and passenger counting, all in real-time. When combined with Everyware IoT, the complete IoT stack by Eurotech, Eurotech technology addresses the challenges of the next-generation applications for smart transportation and connected railways.

The family of Multi-service IoT Edge Gateways by Eurotech is designed to meet the demanding requirements of rolling stock and automotive installations while offering integrated hardware and software connectivity options towards the vehicle and the remote cloud servers.

Powered by the Eurotech IoT Edge Framework, Everyware Software Framework (ESF), Eurotech Multi-service IoT Edge Gateways natively support transportation field protocols like CAN bus and Multifunction Vehicle Bus (MVB). The friendly ESF web-based user interface allows to create powerful data flows to acquire data from the vehicle, analyze it on the Edge, and publish it to the Cloud through the popular MQTT protocol. Everyware Cloud, Eurotech IoT Integration Platform, complements this solution by providing data integration service to the application and by offering complete management of the devices installed on the vehicles.

With Eurotech connected smart devices, Everyware Software Framework (ESF) and Everyware Cloud (EC), real-time data can be acquired and analyzed in order to offer an engaging passenger experience as well as to improve the operational efficiency.

With our connected smart devices, our Everyware Software Framework (ESF) and our Everyware Cloud (EC) it is possible to analyze and manage real-time data in order to improve passenger experience as well as infrastructure operability.

The Complete Offer

In the Transportation market we can offer a broad portfolio of standard products, and with our proven experience in this demanding vertical we are able to offer tailored services and customised products to exceed customers’ requirements.

Designed to be globally deployable, our hardware is ready for deployment in many regions and pre-certified for multiple industry verticals.

Our offer also includes end-of-life management, Long-life cycle product services designed for extended reliability.
Transportation & Mobility
Eurotech is one of the worldwide leaders in embedded platforms for the public and commercial transportation market.

Eurotech develops a wide range of rugged subsystems designed specifically for mobile IT infrastructures like vehicle control, location tracking applications, public announcement and passenger information systems, passenger counting, fleet management and security/surveillance systems.

Product Selection
Eurotech develops a wide range of EN50155 and Automotive-certified subsystems designed to exceed the requirements for mobile IT infrastructures like vehicle control, location tracking applications, public announcement and passenger information systems, passenger counting, fleet management and security/surveillance systems. With an extremely rugged enclosure, these products are suitable for any application where consistent performance and reliability are a must.

Edge Computers
Rugged Multi-service IoT Edge Gateway
- E-Mark, SAE/J1455
- Internal UPS
- Internal LTE Cat 1 (NA, EU, JP), GPS, Dead Reckoning
- Rugged AMPSEAL Connectors

Automotive Multi-service IoT Edge Gateway
- E-Mark, SAE/J1455
- High-retention Connectors and Transient Protection
- Internal LTE Cat 1 (NA, EU, JP), GPS, Dead Reckoning
- Native Field Protocol Support

Rugged Multi-service IoT Edge Gateway
- MVB-ready
- Fanless and Ventless
- Rich Isolated I/O and Rugged Connectors
- Removable Storage
- Multiple Connectivity Options

Rugged Fanless 1U Edge Server
- Fanless and Ventless
- 19” 1U Rack Mount
- Server Class CPUs
- High Computational and Storage Performance
- Suitable for Heavy Duty Applications

Panel PC
Rugged and Mobile Display Computer
- 5.7” VGA Touch-screen Display
- Built-in GPS
- WiFi, 3G, Gigabit Ethernet
- Many Power Supply Options

Displays
Ultra-Thin, Fanless Dot Matrix Information Panel
- Thin and Lightweight
- High Brightness (> 2,000 cd/m2)
- Smart Graphics, Bitmaps, Animations
- Daisy Chainable, with Ethernet Bypass

Routers
Rugged Embedded Services Router
- Fanless and Ventless
- Features Cisco 5921 ESR
- Dual Cellular Connectivity and GPS with Dead Reckoning
- Multiple Connectivity Options

Storage Systems
Rugged Network Attached Storage
- Up to 1TB Aggregated Storage
- RAID 1 Functionality (up to 500GB)
- 10/100 Mbit Ethernet
- DHCP Client Interface for Quick and Easy Setup

People Counters
Automatic Passenger Counter
- Contactless Vision Detection Technology
- Stereoscopic Vision Technology
- Built-in Infrared Illumination System
- High-accuracy Bidirectional Counting
- RS-485, Ethernet or PoE Versions

HPEC Systems
Automotive HPEC NAS
- Shock & Vibe and E-Mark Certified
- 16TB NVMe Storage
- Dual 40/56 Gigabit Ethernet
- In-vehicle Installation
- Liquid Cooling

Automotive HPEC Server
- In-vehicle Deep learning
- Shock & Vibe and E-Mark Certified
- Dual 14-core Intel Xeon
- NVIDIA GeForce GTX GPUs
- Dual 40/56 Gigabit Ethernet
- Liquid Cooled