

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.

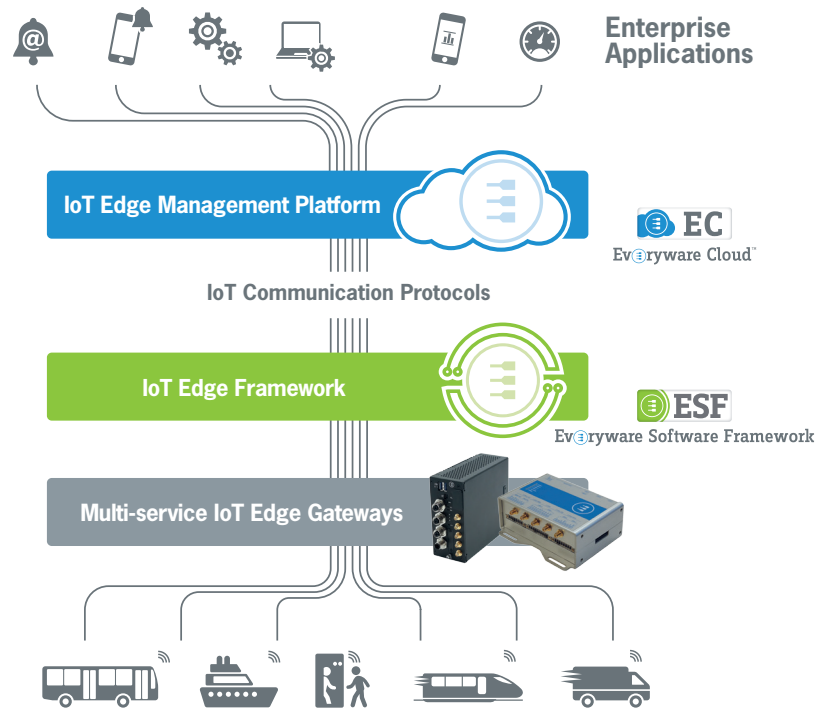
Eurotech products enables multiple transportation solutions including digital signage, passenger information displays, and passenger counting, all in real-time. When combined with **Everyware IoT**, the complete IoT stack by Eurotech, they address the challenges of the next-generation applications for 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's IoT Edge Framework, **Everyware Software Framework** (ESF), Eurotech's 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's IoT Edge Management 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 customized 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 AND MOBILITY



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Transportation and Mobility

Eurotech is one of the worldwide leaders in embedded platforms for the public and commercial transportation market.

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.

HPEC and Edge AI



BoltGPU 10-31

Subsystem for Edge AI and Machine Vision

- GPU-accelerated Workloads
- Multiple Camera Input
- Rolling Stock and Automotive Certifications
- Internal NVMe Storage

EN50155
Class OT3

IP40



DynaCOR 40-36

High-performance Edge Computer

- Edge Inference and Training
- 16TB NVMe Storage
- 16-core Intel Xeon D
- NVIDIA GV100 GPUs
- Liquid Cooling

+5 to +45°

IP40



DynaCOR 40-35

High-performance Data Logger

- 123TB NVMe Storage
- 80Gbit/s Writing Speed
- 100 Gigabit Ethernet
- Easy Installation
- Liquid Cooling

+5 to +45°

IP40



DynaNET 100G-01

High-performance Ethernet Switch

- 100GbE Ports
- 3.2 Tb/s Throughput
- Layer 3 Managed
- Liquid Cooling

0 to +45°

IP40

Edge Computers



DynaGATE 10-12

Automotive Multi-service IoT Edge Gateway

- E-Mark, SAE/J1455 (Optional)
- High-retention Connectors and Transient Protection
- Internal LTE Cat 1 (NA, EU, JP), GNSS, Dead Reckoning
- Native Field Protocol Support

-40 to +70°

IP40



DynaGATE 10-06

Automotive Edge Computer

- E-Mark, SAE/J1455 (Optional)
- Internal UPS
- Internal LTE Cat 1 (NA, EU, JP), GNSS, Dead Reckoning
- Rugged AMPSEAL Connectors

-40 to +85°

IP67



DynaGATE 20-30

Automotive Multi-service IoT Edge Gateway

- E-Mark, SAE/J1455 (Optional)
- Internal Global LTE Cat 4
- High-precision GNSS (RTK)
- Native Field Protocol Support

-40 to +70°

IP54



BoltGATE 10-12

Railway and Automotive Multi-service IoT Edge Gateway

- Railway and Automotive Certifications
- Internal UPS
- Internal LTE Cat 1
- Untethered Dead Reckoning GNSS

EN50155
Class OT4

IP67



BoltGATE 20-31

Modular Multi-service IoT Edge Gateway

- MVB Support
- Internal Global LTE Cat 4
- Modular Architecture
- 3U Recess Installation
- Reliable Fanless Performance

EN50155
Class OT4

IP30



BoltGATE 20-25

Rugged Multi-service IoT Edge Gateway

- MVB Support
- Fanless and Ventless
- Rich Isolated I/O and Rugged Connectors
- Removable Storage
- Multiple Connectivity Options

EN50155
Class TX

IP66



BoltCOR 30-17

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

EN50155
Class TX

IP40

Displays



DynaDOT

Ultra-thin, Fanless Dot Matrix Information Panel

- Thin and Lightweight
- High Brightness (> 2.000 cd/m2)
- Smart Graphics, Bit-maps, Animations
- Daisy Chainable, with Ethernet Bypass

EN50155
Class T3

IP54

Panel PC



DynaVIS 10-00

Rugged and Mobile Display Computer

- 5.7" VGA Touch-screen Display
- Built-in GNSS
- Wi-Fi, 3G, Gigabit Ethernet
- Many Power Supply Options

EN50155
Class T1

IP65

Routers



BoltMAR 20-28

Rugged Embedded Services Router

- Fanless and Ventless
- Features Cisco 5921 ESR
- Dual Cellular Connectivity and GNSS with Dead Reckoning
- Multiple connectivity options

EN50155
Class TX

IP66

Storage Systems



DuraNAS

Rugged Network Attached Storage

- Up to 2TB Aggregated Storage
- RAID 1 Functionality (up to 500GB)
- 10/100 Megabit Ethernet
- DHCP Client Interface for Quick and Easy Setup

EN50155
Class T1

IP65

People Counters



DynaPCN

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

EN50155
Class T1

IP65