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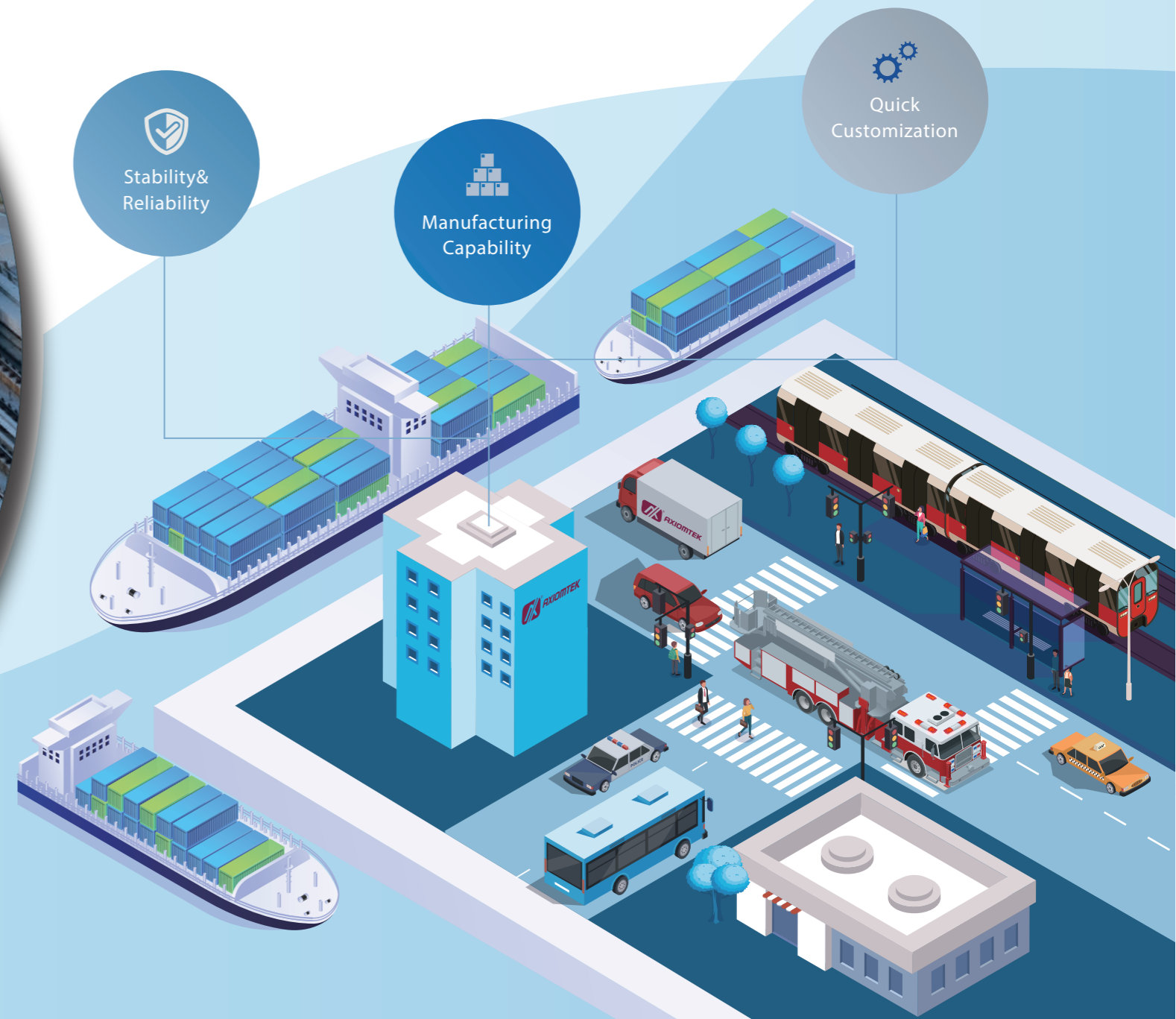


Intelligent  
Transportation  
Solutions

# Intelligent Transportation Solutions



Axiomtek offers a comprehensive range of railway and roadway products from embedded systems, panel PCs to monitors to fulfill the diverse needs in CCTV surveillance, passenger information system (PIS), communication, and driver machine interface (DMI) applications. With stability, reliability and flexibility, Axiomtek's transportation products have been certified with E-Mark for vehicle applications; EN 50155, EN 50121 and EN 45545 for railway applications; and DNV 2.4 and IEC 60945 for marine applications. We have experienced design engineering and value-added service teams that have been recognized by our customers as some of the most helpful and valuable resources for their seamless and quick deployments.



# In-Vehicle Systems for Safer and Smarter Mobility

## Strict Automotive Standard

- ISO 7637-2
- E-Mark
- CE (Class A)
- FCC

## Smart Ignition

- Power on/off schedule
- Vehicle battery protection
- Different power modes

## Rugged Reliability

- Fanless operation
- Wide operating temperatures from -40°C to +70°C
- 9 to 36 VDC and 12/24 VDC typical in-vehicle power input

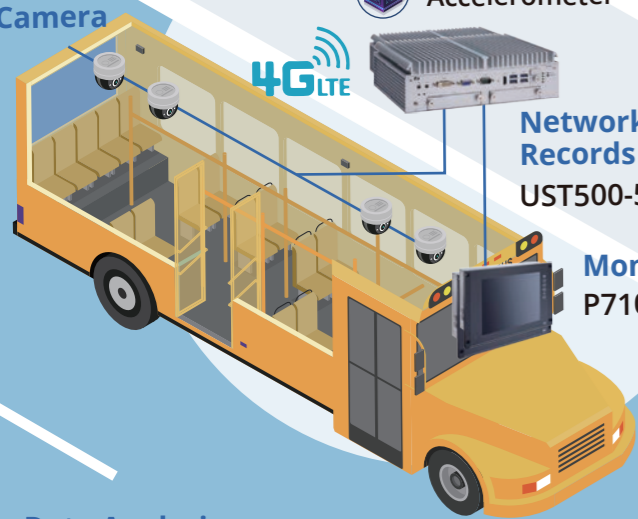
## Modular Configuration

- Flexible I/O windows
- Easy expansion design
- Value-added modules



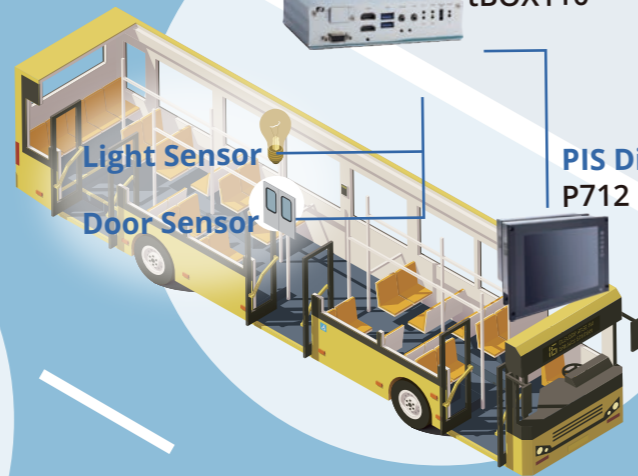
### Mobile Surveillance

- Built-in GPS
- Built-in Accelerometer
- 4G LTE
- Network Video Records (NVR) UST500-517-FL
- Monitor P710



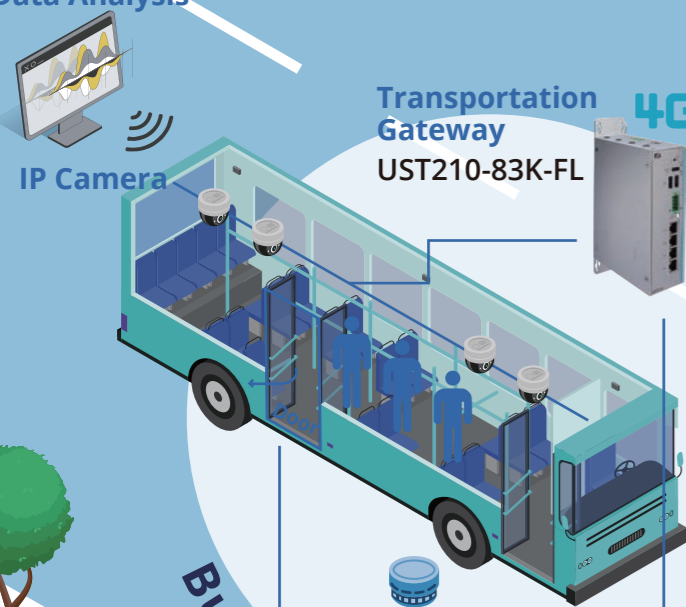
### Passenger Information System

- PIS Display Controller tBOX110
- PIS Display P712
- Light Sensor
- Door Sensor



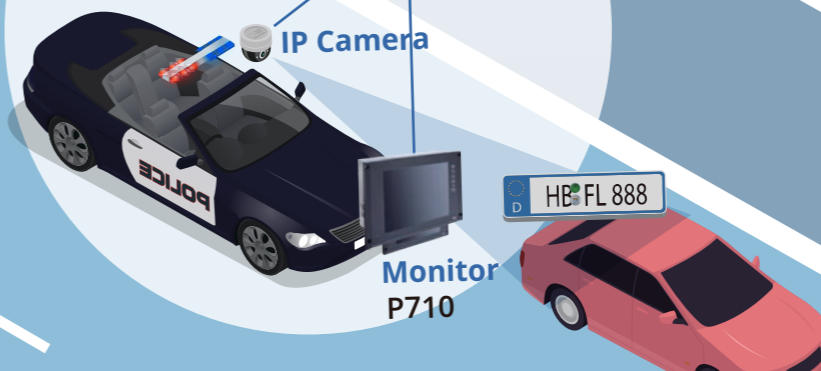
### Bus Passenger Counting System

- 4G LTE
- Transportation Gateway UST210-83K-FL
- Lidar Sensor
- IP Camera
- Data Analysis



### License Plate Recognition

- NVR+Edge Computer UST100-504-FL
- 4G LTE
- IP Camera
- Monitor P710



#### tBOX110

Fanless Vehicle System with Intel Atom® Processor E3940



#### UST510-52B-FL

Fanless Vehicle System with 2 Flexible I/O Windows



#### UST500-517-FL

8/16-PoE Fanless Embedded System with E-Mark, EN 50155 for Vehicle and Railway



#### UST210-83K-FL

DIN-rail Fanless In-Vehicle Gateway with Intel Atom® x5-E3940 Processor



#### UST100-504-FL

Fanless Vehicle System Compact for In-Vehicle Video Analytics



# Railway Systems for Onboard Monitoring and Computing

## Rugged Reliability

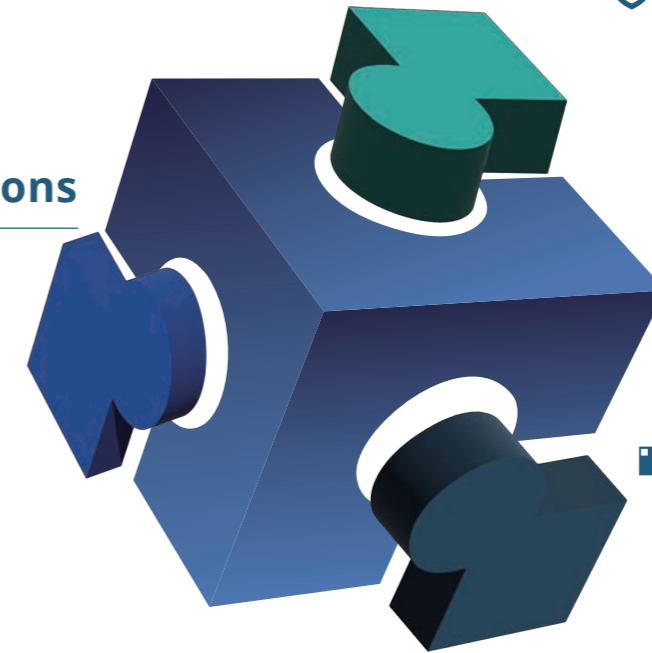
- Fanless operation
- Wide operating temperatures from -40°C to +70°C
- Thermal conductivity
- Shock and vibration resistance

## Railway Certifications

- EN 50155
- EN 50121-3-2
- EN 45545-2
- CE (Class A)
- FCC

## Modular Configuration

- Plug-in I/O module slots for various requirements
- Value-added modules



Real-time  
Seat Occupancy  
Detection

IP Camera

Edge Computing System  
UST500-517-FL

Monitor  
P712

Security  
Surveillance  
System

NVR+Data Server  
tBOX300-510-FL

PoE Switch

IP Camera

Train Server

Data Logger  
tBOX110

Monitor  
P712

Ethernet Switch

Light Sensor  
Door Sensor

Train Control  
and  
Management

Data Logger  
tBOX110

Train Server

Driver Machine  
Interface  
GOT710S

Mobile  
Communication  
System

Ethernet  
Switch

Firewall System  
tBOX500-510-FL  
with VAM708

Train Control  
System

**tBOX520**

Fanless Transportation Embedded System with 12th Gen Intel® Core™ Processor

**tBOX500-510-FL**

Fanless Transportation Modular Embedded PC with Internal PoE PSU Solution

**tBOX300-510-FL**

Fanless Transportation Embedded PC with Modular I/O Design

**tBOX110**

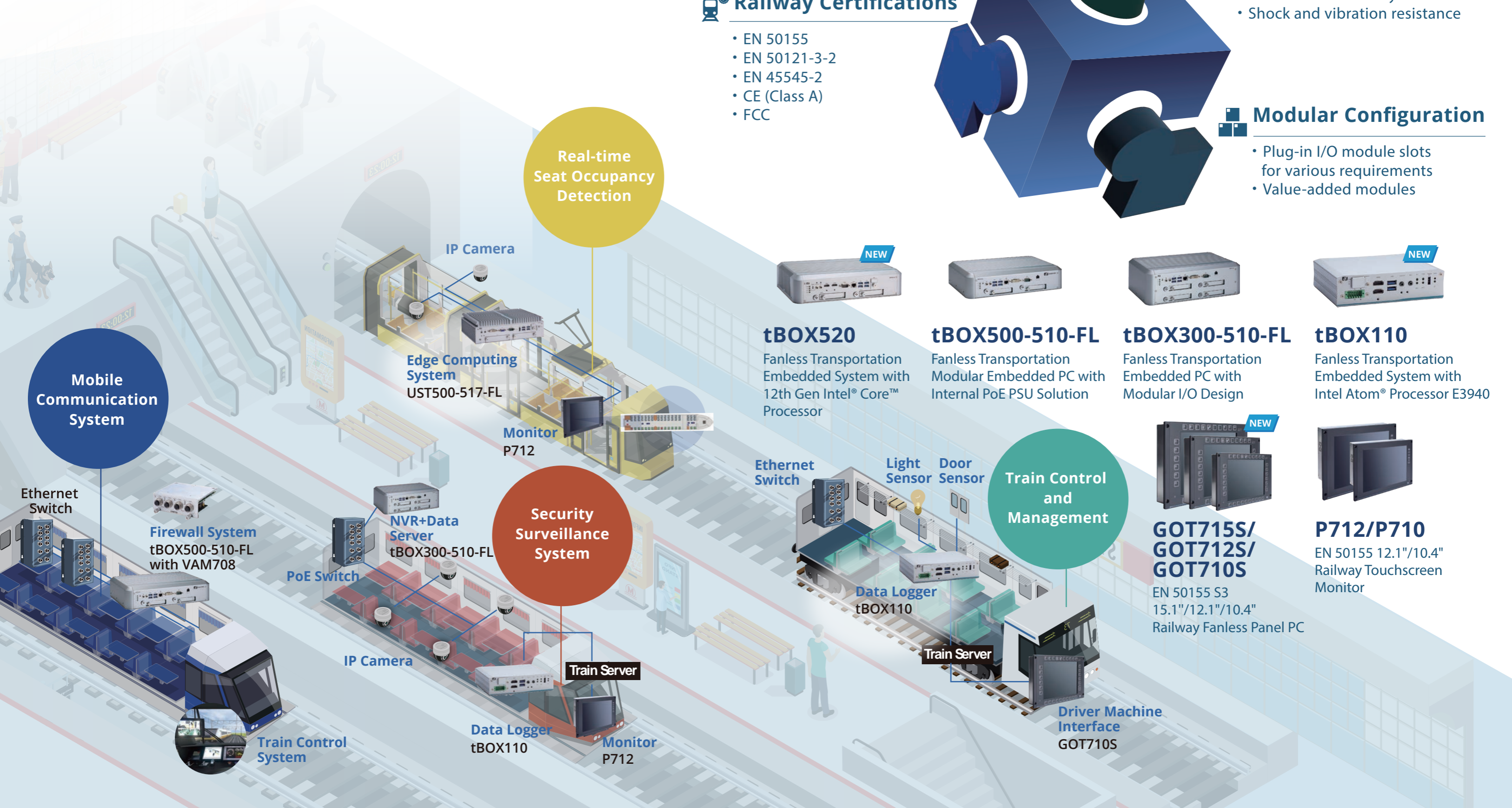
Fanless Transportation Embedded System with Intel Atom® Processor E3940

**GOT715S/  
GOT712S/  
GOT710S**

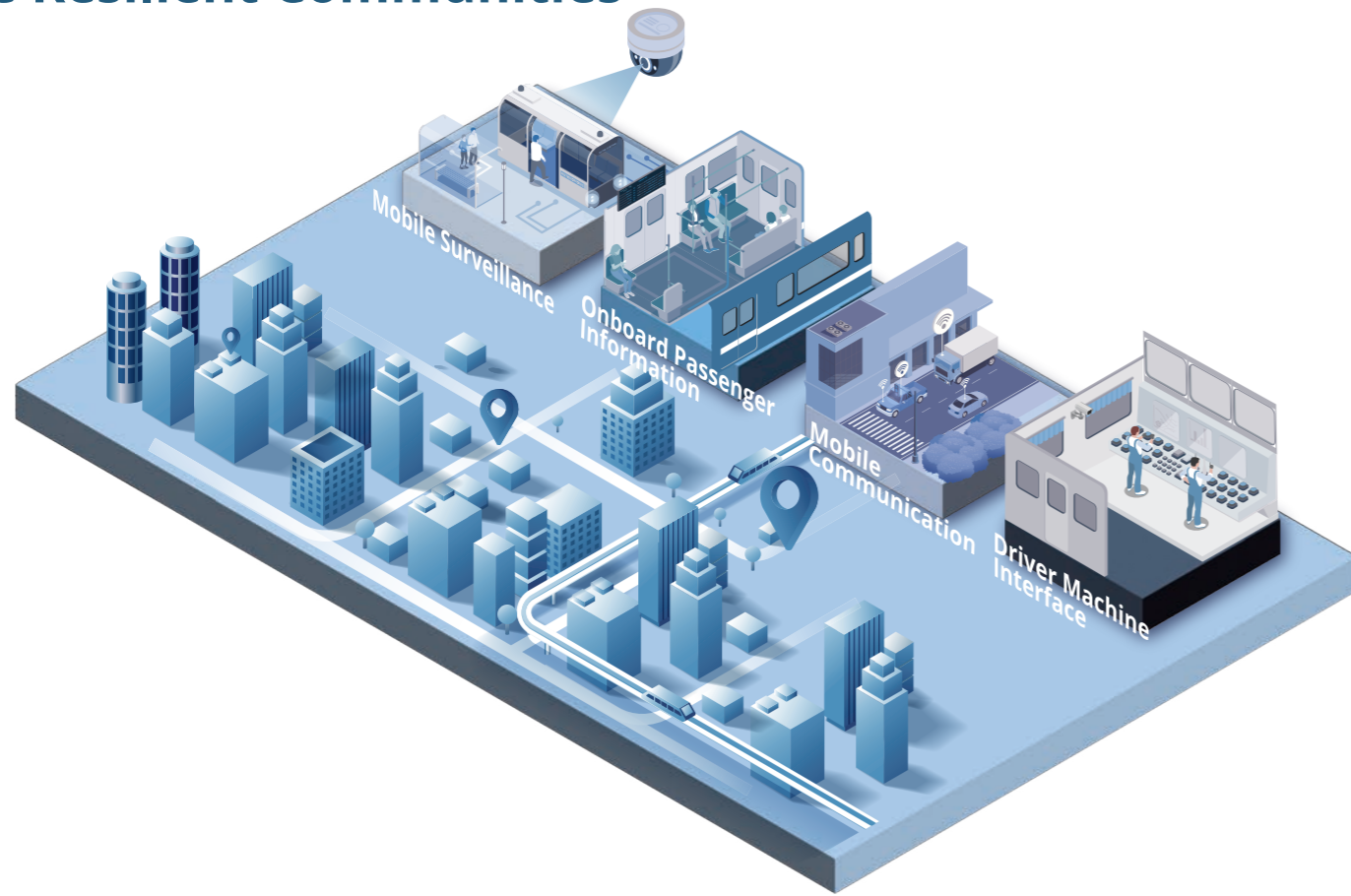
EN 50155 S3  
15.1"/12.1"/10.4"  
Railway Fanless Panel PC

**P712/P710**

EN 50155 12.1"/10.4"  
Railway Touchscreen  
Monitor



# Building A Smart City with Safer, More Resilient Communities



# Certifications

Model Name	<b>NEW</b> tBOX520	tBOX500-510-FL	tBOX300-510-FL	<b>NEW</b> tBOX110	UST510	UST500-517-FL	UST210	UST100-504-FL
Model								
CE (Class A)	●	●	●	●	●	●	●	●
FCC	●	●	●	●	●	●	●	●
EN 50155	●	●	●	●	X	●	X	X
EN 50121-3-2	●	●	●	●	X	●	X	X
E-Mark	X	X	X	X	●	●	X	X
ISO 7637-2 (E-Mark)	X	○	X	○	●	●	X	○
EN 45545-2	●*	●*	○	●*	X	●*	X	X
IEC 60945	X	●	○	X	X	X	X	X

## Value-Added I/O Modules (VAM) for tBOX300 & tBOX500 Series



VAM100	VAM101	VAM200	VAM400	VAM600	VAM900
4 x Isolated 4-wire RS-232/422/485	4 x Isolated CANBus 2.0A/B	1 x Isolated DIO 8-in/ 8-out	4 x BNC video-in & 1 x BNC audio-in, 2 x PCIe Mini Card slot, 1 x capture card	2 x PCIe Mini Card slot with SIM socket	1 x Isolated DIO 8-in/8-out, 1 x COM, 1 x CANbus, 3 x PCIe Mini Card slot + 2 x SIM socket

VAM700/701	VAM702/703	VAM704/705	VAM706/707	VAM708 <b>NEW</b>
4 x M12 A-coded GbE with & without PoE	4 x RJ-45 GbE with & without PoE	4 x M12 D-coded 10/100 Mbps with & without PoE	4 x M12 X-coded GbE with & without PoE	4 x M12 A-coded GbE LAN with 2-CH LAN ByPass

Model Name	P710 10.4" Monitor	P712 12.1" Monitor	<b>NEW</b> P7180 18.5" Monitor	GOT710S-837 10.4" Panel PC	GOT712S-837 12.1" Panel PC	<b>NEW</b> GOT715S 15.1" Panel PC
Model						
CE (Class A)	●	●	●	●	●	●
FCC	●	●	●	●	●	●
EN 50155	●	●	○	●	●	○
EN 50121-3-2	●	●	○	●	●	○
EN 45545-2	●*	●*	●*	●*	●*	●*
UIXC 612-01	X	X	X	○	X	X

● certified ○ compliant \*EN 45545-2 test report available only



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