



# Intelligent Transportation Solutions



[www.axiomtek.com](http://www.axiomtek.com)

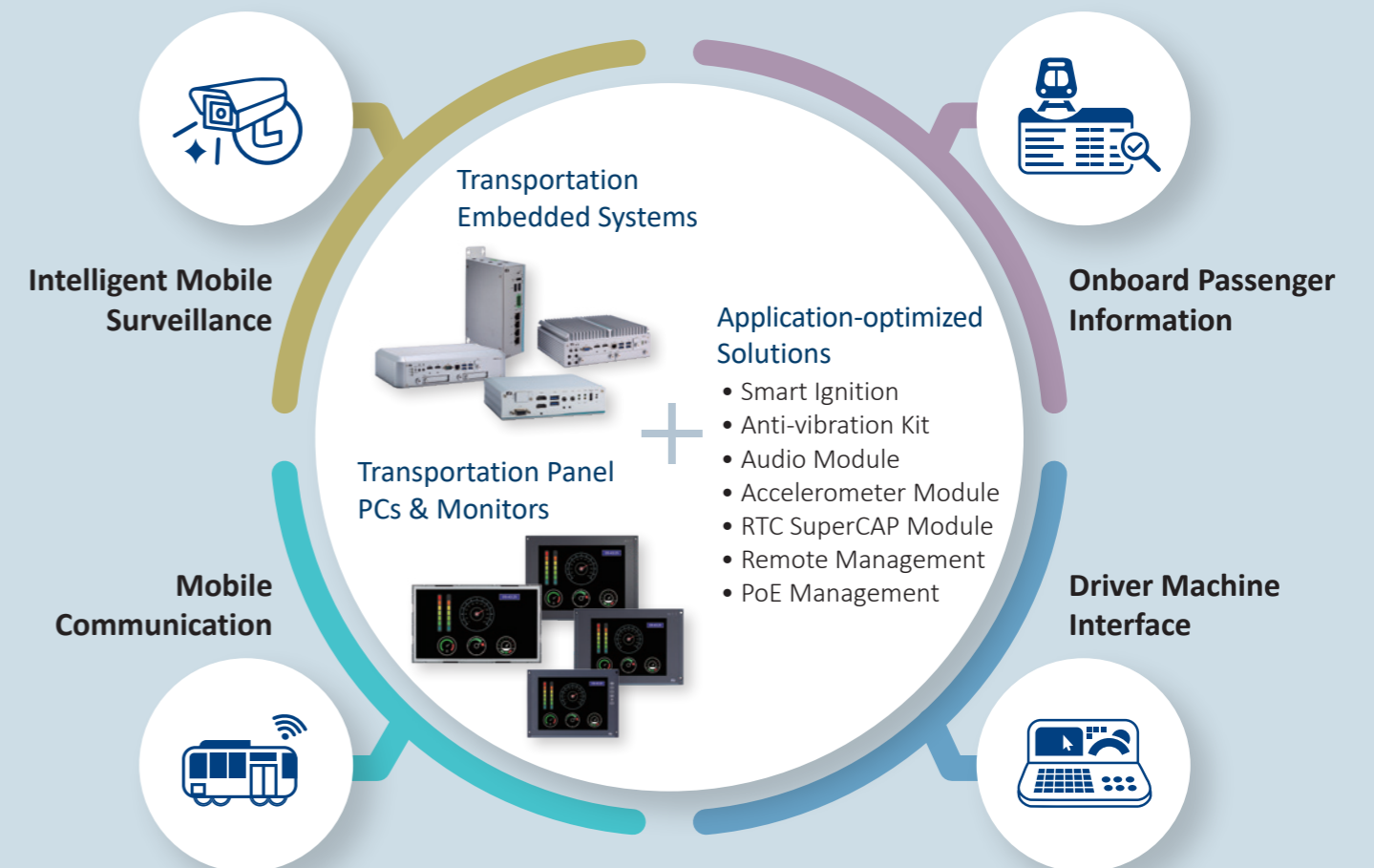
# Axiomtek's Advanced Transportation Solutions: Stability, Reliability, and Flexibility



Axiomtek offers a wide range of transportation solutions, including embedded systems, panel PCs, and monitors, tailored for applications such as CCTV surveillance, passenger information systems (PIS), communication, and driver machine interfaces (DMI). Known for stability, reliability, and flexibility, our products are certified for various sectors, including E-Mark for vehicles, EN 50155, EN 50121, and EN 45545 for railways, and DNV 2.4 and IEC 60945 for marine use. Our expert design and service teams ensure smooth, fast deployments that customers trust.

# The Power of Axiomtek's Solution Ready Package: Enhancing Rolling Stock and In-Vehicle Applications

Axiomtek's Solution Ready Package (SRP) is designed to meet the stringent demands of rolling stock and in-vehicle applications. With its fanless design, wide operating temperature range, and robust certification, it offers exceptional reliability in harsh transportation environments. The SRP provides versatile connectivity options, including GPS, OBD-II/CANbus, accelerometer, digital I/O, PoE, and wireless capabilities, ensuring seamless integration with peripherals. Its rugged construction makes it ideal for fleet management and device monitoring, helping reduce operational costs, maintenance, and manpower while boosting efficiency in transportation applications.



## Rolling Stock & In-Vehicle Applications



# Intelligent In-Vehicle Solutions for Safer Mobility



## Adherence to Strict Automotive Standards

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



## Smart Ignition Features

- Power on/off scheduling
- Vehicle battery protection
- Multiple power modes



## Enhanced Durability and Reliability

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



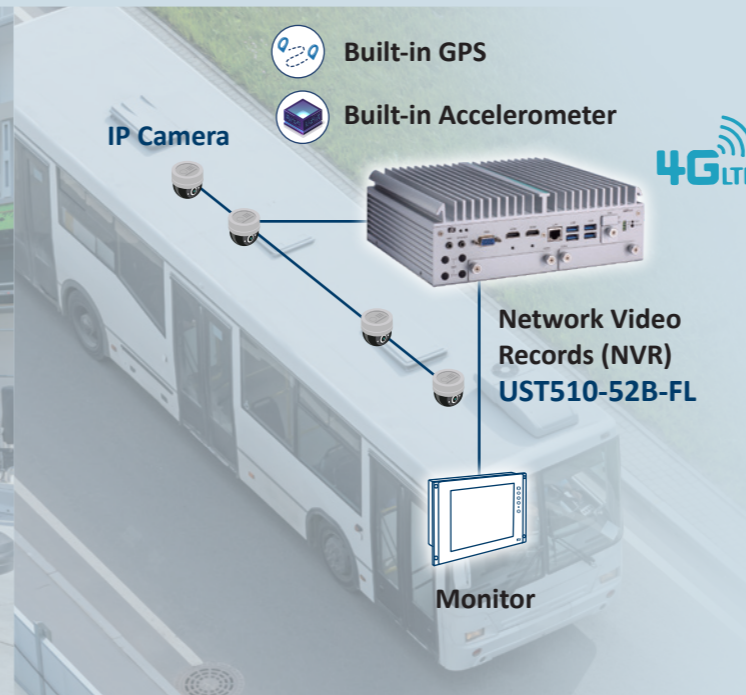
## Modular Configuration

- Flexible I/O windows
- Reserved expansion slots for 5G, LTE, Wi-Fi, and GPS

## Automatic Passenger Counting



## Mobile Surveillance



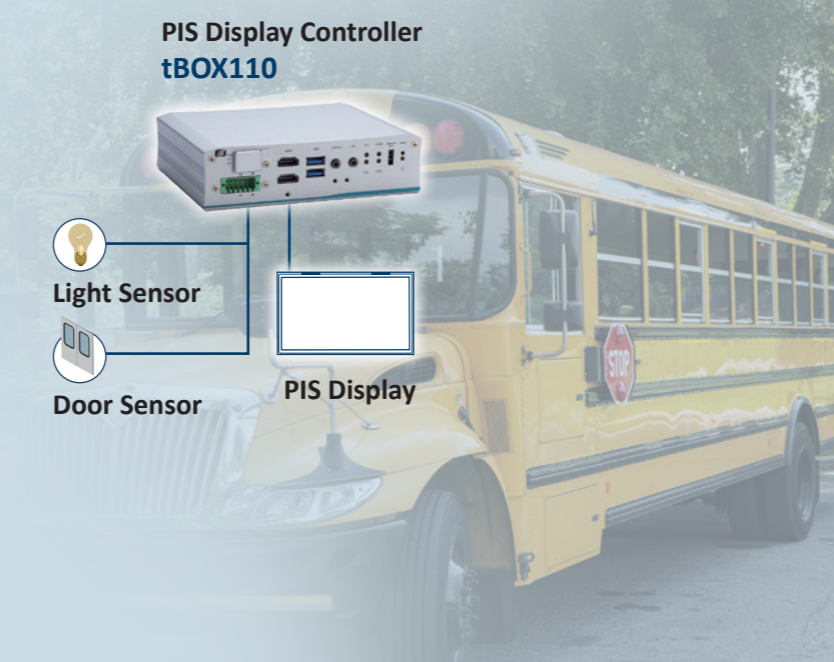
**UST210-83K-FL**  
DIN-rail Fanless Embedded System with Intel Atom® x5-E3940 for Gateway Applications

- E-Mark
- Low Power
- Palm-size
- Smart Ignition
- Wide Temp.

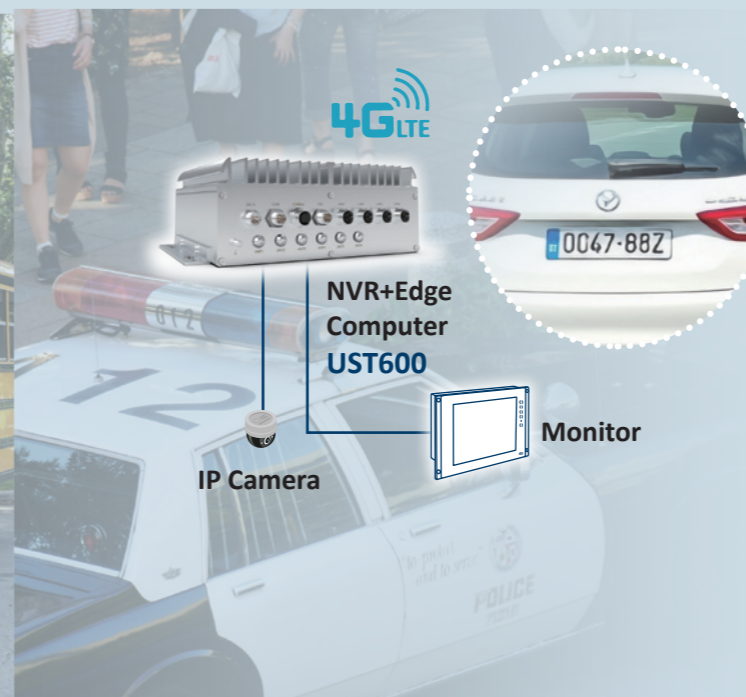
**UST510-52B-FL**  
Fanless Embedded System with Up to 16 PoE Ports, 9th/8th Gen Intel® Core™, and 2/4 Swappable SSD Trays

- ISO 7637-2
- Smart Ignition
- Wide Temp.

## Onboard Passenger Information System



## License Plate Recognition



**tBOX110**  
Fanless Embedded System with Intel Atom® x5-E3940 for Onboard Gateway Applications

- EN50155
- EN 45545-2
- E-Mark
- Smart Ignition
- Wide Temp.
- Dual-View

**UST600**  
Fanless Edge AI System with NVIDIA® Jetson Orin NX Series with 4 PoE ports for Video Analytics

- ISO 7637-2
- Smart Ignition
- Wide Temp.



# Advanced Railway Systems for Onboard Monitoring and Computing



## Rugged Reliability Features

- Fanless operation
- Wide operating temperature range: -40°C to +70°C
- Enhanced thermal conductivity
- Superior shock and vibration resistance



## Railway Certifications

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



## Modular Configuration

- Versatile plug-in I/O module slots for customized requirements
- Expansion with value-added modules

## Public Transit Surveillance & Security System



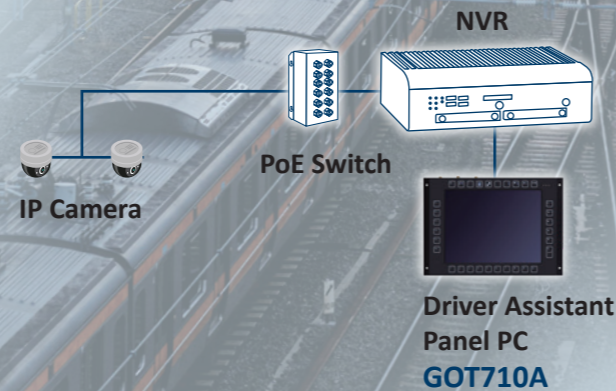
Driver Machine Interface (DMI)  
**GOT712S**

**GOT715S/GOT712S/GOT710S**

15.1"/12.1"/10.4" Railway Touchscreen Panel PC



## Train Control & Management System



**tBOX500-510-FL**  
Fanless Modular Embedded System with 7th Gen Intel® Core™ and Internal PSE



**GOT710A**  
10.4" XGA TFT LCD Railway Touchscreen Panel PC with Intel Atom® x6425E



## Mobile Communication System



Firewall System  
**tBOX500-510-FL with VAM708**

Monitor  
**P780**



**P7180**  
18.5" Full HD Open Frame Railway Monitor



## Real-time Detection of Seat Occupancy



**tBOX520**  
Fanless Modular Embedded System with 12th Gen Intel® Core™ for Onboard High-computing Applications



**P712/P710**  
12.1"/10.4" XGA TFT LCD Railway Touchscreen Monitor



# Certifications

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



tBOX520



VAM100	VAM102	VAM200	VAM600	VAM601	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	2 x PCIe Mini Card slot with SIM socket	3 x LTE & 6 x SIM socket with built-in GPS	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	
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	

## Peripherals

MIO108	EIO118	AX92170	Anti-Vibration Kit
Full-size PCIe mini module with 2 CANBus	PCIe mini card for LTE module	SuperCAP mini card module	Anti-vibration kit for the tBOX and UST series

## Full Certification for the tBOX Series

	tBOX110	tBOX324	tBOX500	tBOX520	tBOX810
CE (Class A)	●	●	●	●	●
FCC	●	●	●	●	●
EN 50155	●	●	●	●	●
EN 50121-3-2	●	●	●	●	●
E-Mark	●	●	-	-	●
ISO 7637-2 (E-Mark)	●	●	○	-	●
EN 45545-2*	●	●	●	●	●
IEC 60945	-	●	●	-	●
DNV 2.4	-	●	-	-	●

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

## Full Certification for the UST Series

	UST100	UST200	UST210	UST500	UST510	UST600
CE (Class A)	●	●	●	●	●	●
FCC	●	●	●	●	●	●
E-Mark	-	●	●	●	●	-
ISO 7637-2 (E-Mark)	○	●	●	●	●	○

○: compliance ●: certified

## Full Certification for the Transportation Monitors and Panel PCs

	P710	P712	P7180	GOT710A	GOT710S	GOT712S	GOT715S
	10.4" Monitor	12.1" Monitor	18.5" Monitor	10.4" Panel PC	10.4" Panel PC	12.1" Panel PC	15.1" Panel PC
CE (Class A)	●	●	●	●	●	●	●
FCC	●	●	●	●	●	●	●
EN 50155	●	●	○	●	●	●	○
EN 50121-3-2	●	●	○	●	●	●	○
EN 45545-2*	●	●	-	●	●	●	●
UIC-612-01	-	-	-	○	○	-	-

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





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