



# Intelligent Transportation Solutions



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

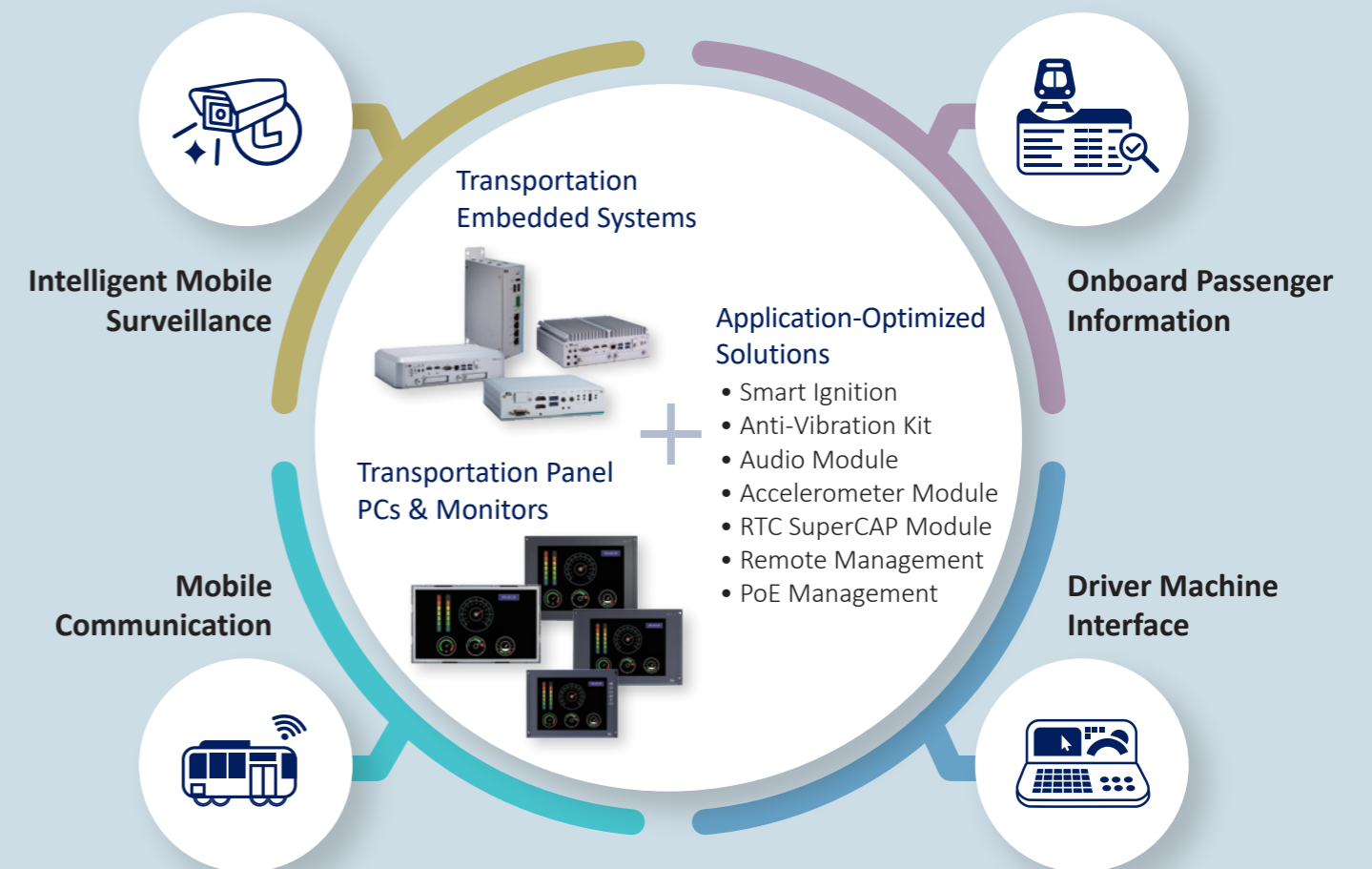
# Stability, Reliability, and Flexibility



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.

# 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.





# 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 temperature range from -40°C to +70°C
- Supports 9 to 36 VDC and typical in-vehicle power input of 12/24 VDC



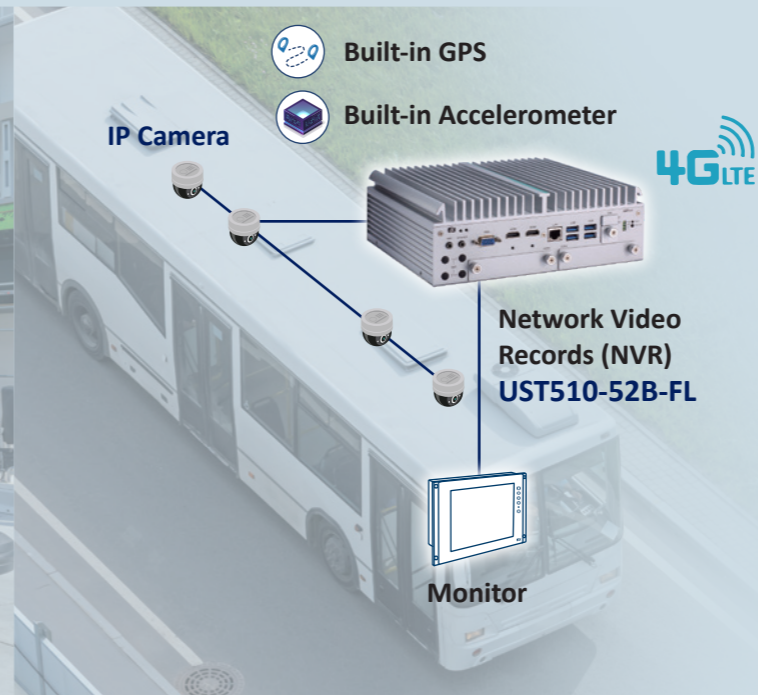
## Modular Configuration

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

## Automatic Passenger Counting



## Mobile Surveillance



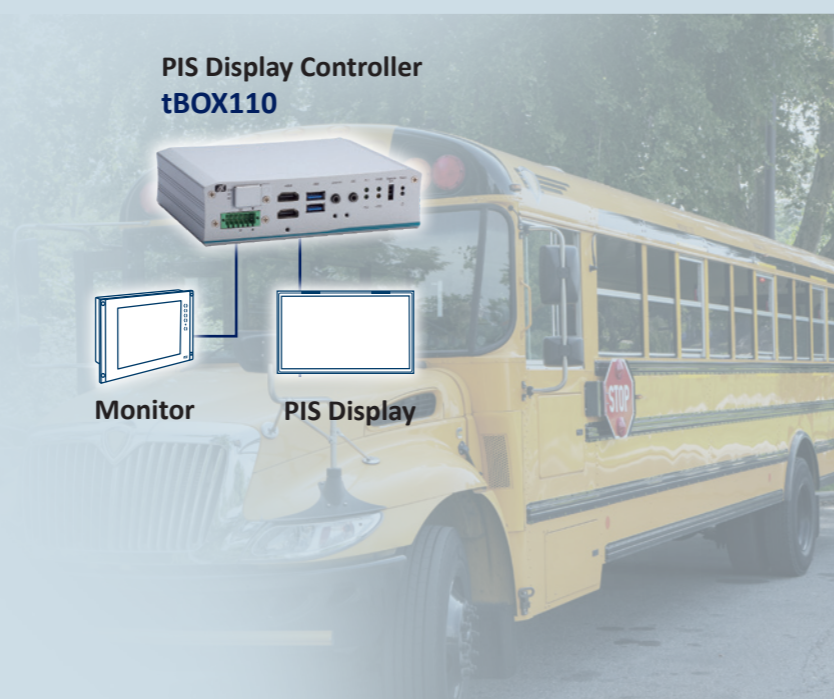
**UST210-83K-FL**  
DIN-rail Fanless Embedded System with Intel Atom® x5-E3940 for Gateway Applications

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

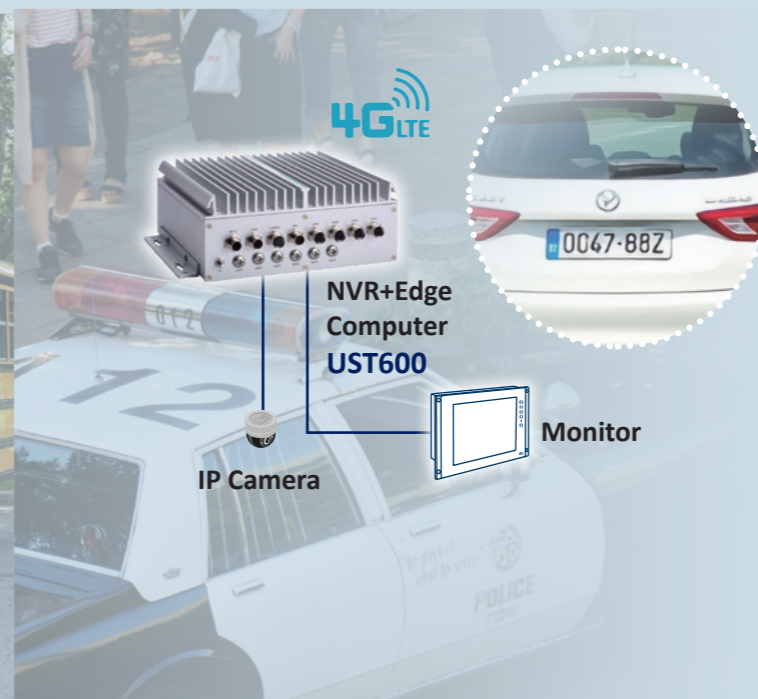
**UST510-52B-FL**  
Fanless Embedded System with Up to 16 PoE Ports, 9th/8th Gen Intel® Core™, and 2/4 Swappable SSD Trays

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

EN 50155 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 from -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



NVR  
tBOX520  
with VAM701  
Data Logger  
tBOX110

IP Camera

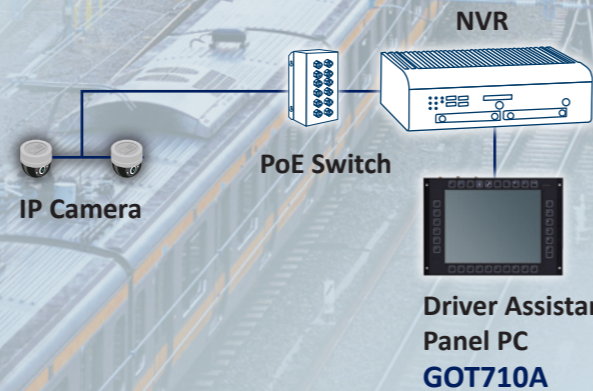
Driver Machine  
Interface (DMI)  
GOT712S

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



NEW

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  
P7180

P7180

18.5" Full HD Open Frame  
Railway Monitor



## Real-Time Detection of Seat Occupancy



IP Camera

Edge Computing  
System  
tBOX520

Monitor  
P712

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



# Certified to Perform, Designed to Expand

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



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 slots with SIM socket	3 x LTE & 6 x SIM sockets with built-in GPS	1 x Isolated DIO 8-in/8-out, 1 x COM, 1 x CANbus, 3 x PCIe Mini Card slots + 2 x SIM sockets

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

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

## Full Certification for the UST Series

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

○: 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
EN 50155	●	●	○	●	●	●	○
EN 50121-3-2	●	●	○	●	●	●	○
EN 45545-2*	●	●	-	●	●	●	●
UIC-612-01	-	-	-	○	○	-	-
CE (Class A)	●	●	●	●	●	●	●
FCC	●	●	●	●	●	●	●

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



# New Product Highlights

## Transportation Embedded Systems

### tBOX520

EN 50155 Certified Fanless Embedded System with 12th Gen Intel® Core™ i7/i5/i3 Processor for Railway



- CE, LVD, FCC, EN 50155, EN 45545-2 certified
- 12th gen Intel® Core™ i7/i5/i3 or Celeron® processor (Alder Lake P)
- 24 to 110 VDC for railway applications
- Value-added modules available for various I/O requirements (COM/LAN/DIO/PoE/CAN/BNC)
- Intelligent solution of power management (Smart Ignition)
- 2 swappable 2.5" SATA drives

### UST520

E-Mark Certified Fanless Embedded System with 14th Gen Intel® Core™ Raptor Lake-refresh



- CE, FCC, E-Mark and R118 certified
- 9 to 60 VDC wide range power input
- Wide operating temperature from -40°C to +70°C
- Up to 8/16 GbE PoE ports by M12/RJ-45 connector type for onboard surveillance
- Supports M.2 Key B and M.2 Key E for wireless communication module
- Intelligent solution of Smart Ignition for power on/off schedule, vehicle battery protection, and different power mode
- Convenient swappable HDD/SSD slots and flexible I/O windows

### UST600

E-Mark Certified Fanless Embedded System with NVIDIA® Jetson Orin™ NX



- CE, FCC, UKCA, E-Mark, R118, IP67, 5M
- NVIDIA® Jetson Orin™ NX, up to 100 TOPS
- 4 M12 X-coded 2.5GbE PoE or 2 M12 X-coded 2.5 GbE + 4 GMSL2 FAKRA Z-coded camera interface
- 1 M12 A-coded CANBus 2.0 A/B (SocketCAN) + CANBus 2.0 A/B (FD)
- 9 to 60 VDC wide range power input
- Domain middleware- Smart Ignition, PoE Management, Communication Manager (w/EIO118)
- Purpose-built for on-road and heavy-duty vehicles

## Transportation Panel PCs

### GOT710A/GOT712A

EN 50155 S3 10.4"/12.1" XGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel Atom® Processor x6425E 2.0 GHz



- EN 50155 and EN 45545-2 certified for railway applications
- Sunlight readable 10.4" XGA TFT LCD
- Intel Atom® processor x6425E, 12W (Elkart Lake)
- Alternative keypad control on the front bezel
- M12-type lockable connectors design
- Auto-dimming for different environments
- Wide operating temperature from -40°C to +70°C (EN 50155 OT4)
- Typical 24 to 110 VDC wide power input range, EN 50155 Class S3 20ms power interruption protection

### P7180

18.5" Full HD Open Frame Railway Monitor for Passenger Information System (PIS)



- EN 50155 compliance
- 18.5" Full HD TFT LCD
- Wide viewing angle and high brightness of 500 nits
- HDMI, DVI-D, and VGA video inputs
- Wide power input range of 24 to 110 VDC
- Supports VESA mount (100 x 100 mm)
- Wide operating temperature from -25°C to +55°C
- Supports 5 OSD keys

## Wireless Module

### EIO118

Full-size LTE Cat.4 Mini Card with GNSS Module



- Supports LTE Cat 4 with up to 50Mbps uplink speed
- Supports LTE Cat 4 with up to 150Mbps downlink speed
- Wide operating temperature range from -40°C to +70°C
- Seamless switching between modules and SIM card slots for flexible connectivity
- Integrated watchdog for enhanced system reliability and availability
- Communication Manager enables remote monitoring and real-time management
- Regional support through corresponding models



## ASIA

### Axiomtek Co., Ltd (HQ)

8F., No.55, Nanxing Road, Xizhi District,  
New Taipei City 221, Taiwan

T/ +886-2-8646-2111

F/ +886-2-8646-2555

E/ info@axiomtek.com.tw

### Axiomtek (Malaysia) Sdn. Bhd.

No 16, Jalan Tandang 51/205A,  
Seksyen 51, 46050 Petaling Jaya, Selangor,  
Malaysia

T/ +603-77731203

F/ +603-77724403

E/ info@axiomtek.com.my

### Axiomtek Technology (Shenzhen) Co., Ltd

Unit GH, 6F, Building 7 (Block B), Baoneng  
Science and Technology Park, Longhua  
Street, Qinghu Community, Qinghu Village,  
Longhua District, Shenzhen, China

T/ +86-0755-66865899

F/ +86-0755-66863068

E/ axcn@axiomtek.com.cn

### Axiomtek (Thailand) Co., Ltd.

7/17 Moo 6, Tumbol Banmai,  
Amphur Pakkret, Nonthaburi,  
Thailand 11120

T/ +662-573-4725

F/ +662-573-4726

E/ sales@axiomtek.co.th

## USA

### Axiomtek (U.S. HQ)

18138 Rowland Street, City of Industry,  
CA 91748, USA

T/ +1-626-581-3232

F/ +1-626-581-3552

E/ info@axiomtek.com  
sales@axiomtek.com

### Regional Sales Office

T/ +1-626-581-3232

Western Region ext. 116

Northeast/Southeast Region ext. 123

North Central Region ext. 189

### Axiomtek Systems

300 Griffin Brook Drive, Methuen,  
MA 01844, USA

T/ +1-978-258-0108

E/ sales@axiomteksystems.com

## EU

### Axiomtek Deutschland GmbH

Elisabeth-Selbert-Straße 21a  
40764 Langenfeld, Germany

T/ +49-2173-399360

E/ welcome@axiomtek.de

### Axiomtek UK Limited

Peter House, Oxford Street, Greater  
Manchester M1 5AN, UK

T/ +44(0)1612093680

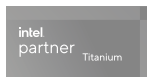
E/ info@axiomtek.co.uk

### Axiomtek Italia S.r.l.

Via Pavia, 21  
20835 Muggiò (MB), Italy

T/ +39-02-664299.1 r.a.

E/ info@axiomtek.it



V518 E982502003