



Intelligent Transportation Solutions



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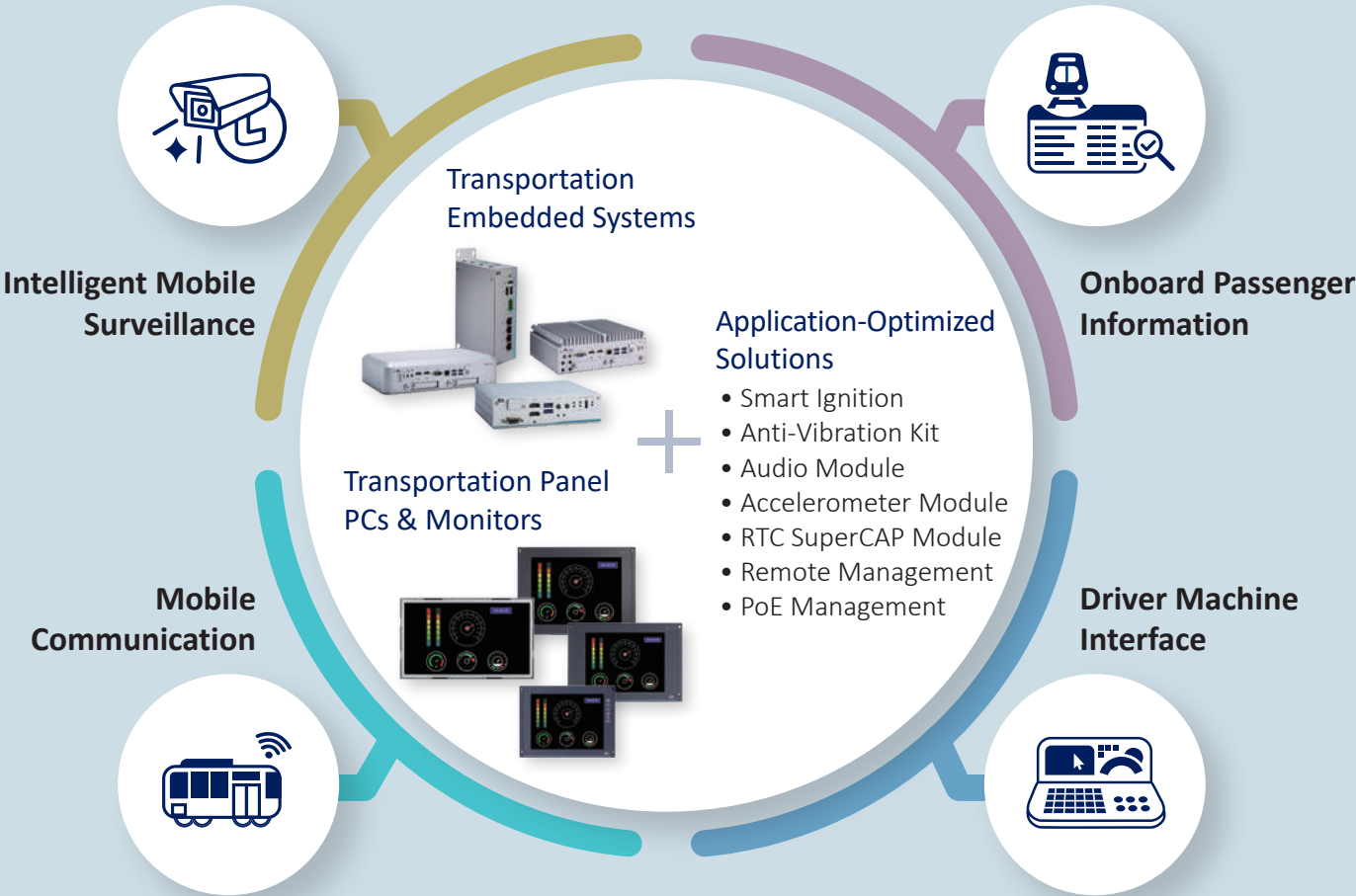
Stability, Reliability, and Flexibility



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



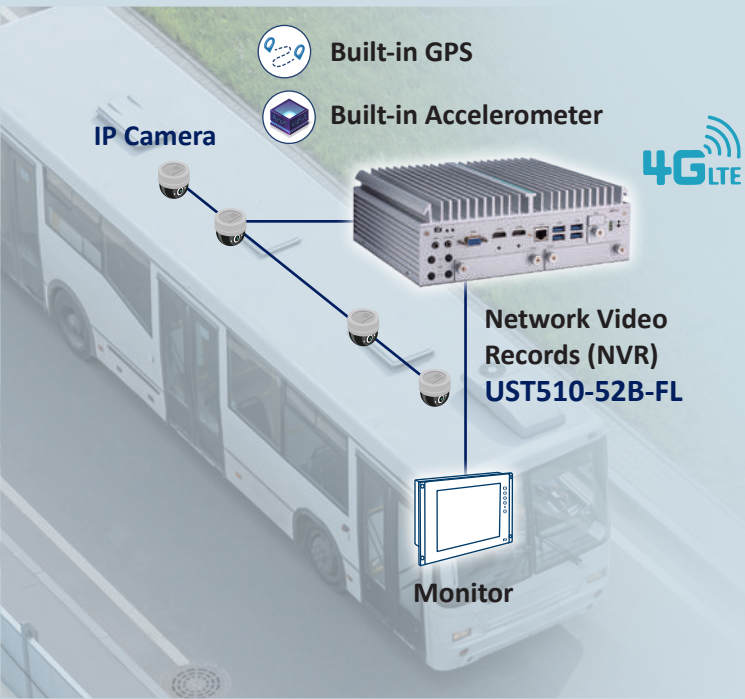
Modular Configuration

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

Automatic Passenger Counting



Mobile Surveillance



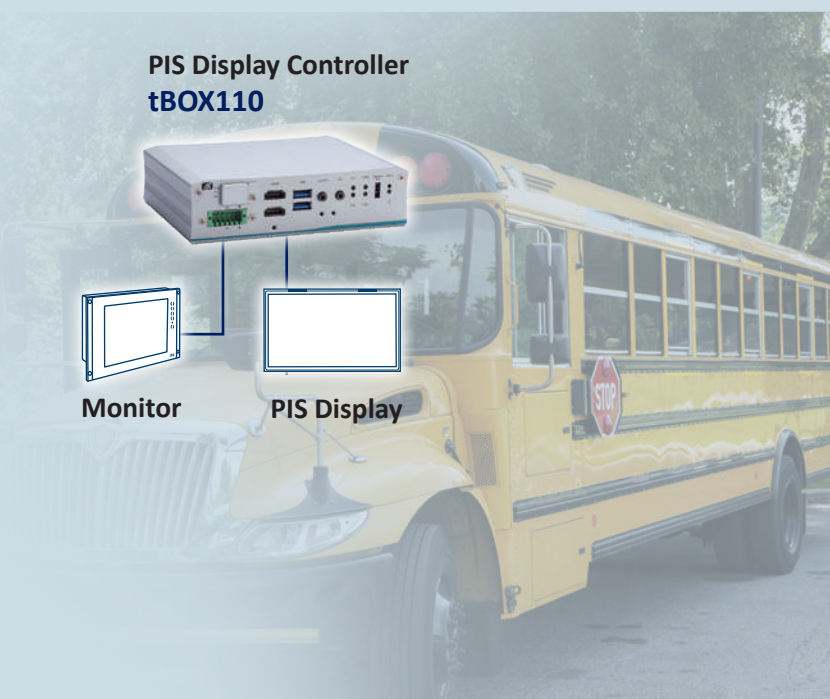
UST210-83K-FL
DIN-rail Fanless Embedded System with Intel Atom® x5-E3940 for Gateway Applications



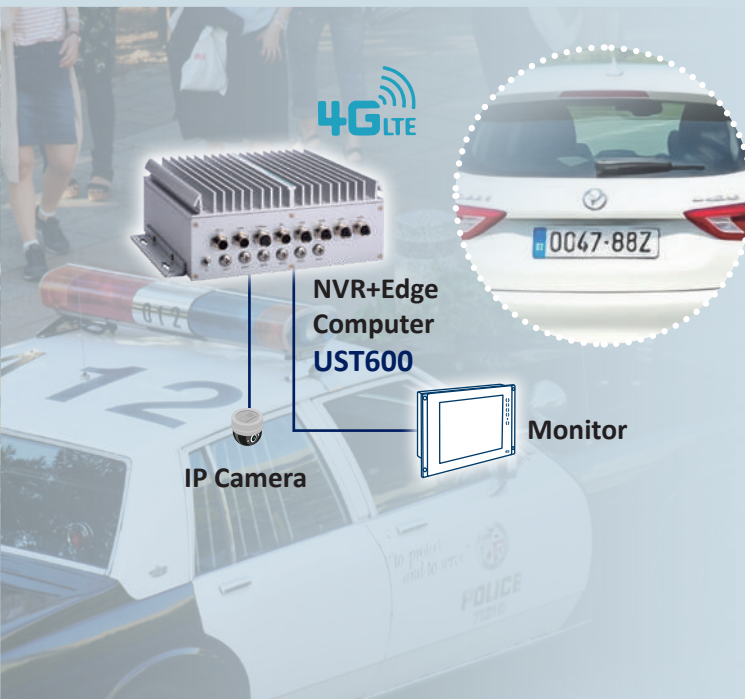
UST510-52B-FL
Fanless Embedded System with Up to 16 PoE Ports, 9th/8th Gen Intel® Core™, and 2/4 Swappable SSD Trays



Onboard Passenger Information System



License Plate Recognition



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



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



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

Driver Machine
Interface (DMI)
GOT712S

GOT715S/GOT712S/GOT710S
15.1"/12.1"/10.4" Railway
Touchscreen Panel PC



Train Control & Management System



NVR
IP Camera
PoE Switch
Driver Assistant
Panel PC
GOT710A

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



PoE Switch
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

 tBOX520 EN 50155 Certified					
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

NEW



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

NEW



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



EI0118

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



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