

Smart Transportation Solutions

AI-enabled Real-time Remote Fleet Management Computers

- ✓ TS In-vehicle Series
- ✓ Roadside Surveillance Series
- ✓ Rugged Railway Series
- ✓ Stackable Extension Series

Passenger Infotainment

Roadside Surveillance

Fleet Management

Vehicle Diagnostics

AI-Enabled Driver Behavior Detection

WISE-DeviceOn

TS-300 Rolling Stock Series

TS-200 In-vehicle Series

TS-100 Surveillance Series



Enabling an Intelligent Planet

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Intelligent Transportation Solutions

Advantech provides transportation fanless systems for in-vehicle, rolling stock, and roadside surveillance applications. These products adhere to in-vehicle/rolling stock certifications (EMark/EN50155), and feature high extension capabilities for communication interfaces, as well as rugged, wide operating temperature designs. Advantech meets customers' requests, enables transportation applications, and reduces time-to-market using flexible hardware designs. When paired with WISE-DeviceOn — an IoT device operation management software — our intelligent transportation systems ease equipment management.



EN50155



WISE-DeviceOn



Solid Certifications

- Railway: EN50155
- Vehicle: EMark, ISO 7637-2
- Surveillance: NEMA TS2



Numerous Extensions

- 3G/4G LTE connections
- Support CanBus/GPS function
- Provide AI modules solution (VEGA320 / VEGA330)



Ruggedized Designs

- -40 ~ 70 °C (-40 ~ 158 °F) wide operating temperature
- Anti-vibration / Shock



Remote Monitoring and Control

- Real-time vehicle monitoring and tracking
- Remote vehicle diagnostics analysis
- Power delay control



TS In-vehicle Series

- Adheres to E-Mark, ISO 7637-2, MIL-STD-810G certifications
- Compatible with VEGA edge AI modules
- Dual SIM slots support diverse communication
- Built-in APIs for vehicle ignition and PoE ports management

Recommended Applications

- Driver behavior detection
- Vehicle health diagnostics
- Fleet management
- Onboard surveillance
- Bus infotainment
- Passenger information systems



ARK-2121V

- Intel Atom® E3845 / E3825
- 12/24 VDC with power ignition management
- -30 ~ 60 °C / -22 ~ 140 °F (E3845) / 30 ~ 70 °C / 86 ~ 158 °F (E3825) operating temp.



ARK-2250V

- Intel® Core™ i7-6822EQ/i5-6442EQ
- 12/24 VDC with power ignition management
- -20 ~ 70 °C (-4 ~ 158 °F) operating temp.



TS-206

- Intel® Core™ i7-6600U/i5-6300U
- EMARK, ISO 7637-2 certified
- -20 ~ 60 °C (-4 ~ 140 °F) operating temp.



Roadside Surveillance Series

- Adheres to NEMA TS2 environmental certifications
- MIL-STD-810G shock and vibration resistance, Method 514 tested
- Built-in WISE-DeviceOn APIs
- Compatible with VEGA edge AI modules

Recommended Applications

- Roadside surveillance
- Vehicle and pedestrian records
- License plate recognition
- Traffic flow monitoring



ARK-2121S

- Intel Atom E3845 with 4 x PoE
- 9 ~ 36 VDC with 1.5KV isolation
- -30 ~ 60 °C (-22 ~ 140 °F) operating temp.



ARK-2151S

- Intel Core i5 4300U with 4 x PoE
- 9 ~ 36 VDC with 1.5KV isolation
- -20 ~ 60 °C (-4 ~ 140 °F) operating temp.



ARK-2250S

- Intel Core i7-6822EQ/i5-6442EQ
- 12~24VDC with 1.5KV isolation
- -20 ~ 70 °C (-4 ~ 158 °F) operating temp.
- NEMA TS2 environmental certified



Rugged Railway Series

- Adheres to EN50155, EN50121-3-2, EN50121-4, IEC61373 certifications
- Compatible with VEGA edge AI modules
- Lockable and rugged I/O designs
- Optional extension layers for PoE, storage

Recommended Applications

- Safety monitoring
- BYOD infotainment
- Alarm system
- Cabin environment monitoring
- Traveler information system



ARK-2231R

- Intel Atom® E3845
- -40 ~ 70 °C (-40 ~ 158 °F) EN50155 TX
- 24VDC EN50155 S2/C1 compliant



ARK-2250R

- Intel® Core™ i7-6822EQ/i5-6442EQ
- -40 ~ 70 °C (-40 ~ 158 °F) EN50155 TX
- 24VDC EN50155 S2/C1 compliant



ARK-2250R High Voltage

- Intel® Core™ i7-6822EQ / i5-6442EQ
- -40 ~ 70 °C (-40 ~ 158 °F) EN50155 TX
- 72V/110VDC EN50155 S2/C1 compliant



Stackable Extension Series

- Extension with rugged railway series
- -40 ~ 70 °C (-40 ~ 158 °F) EN50155 certified

AMK-R100E

- 8 x GbE PoE+ (X-coded)
- 1 x anti-vibration 2.5" drive bay
- -40 ~ 70 °C (-40 ~ 158 °F) EN50155



AMK-R101E

- 4 x GbE PoE+ (X-coded)
- 1 x anti-vibration 2.5" drive bay
- -40~70 °C (-40 ~ 158 °F) EN50155



AMK-R104E

- 8 x 10/100M PoE+ (D-coded)
- 1 x anti-vibration 2.5" drive bay
- -40~70 °C (-40 ~ 158 °F) EN50155



AMK-R105E

- 4 x 10/100M PoE+ (D-coded)
- 1 x anti-vibration 2.5" drive bay
- -40 ~ 70 °C (-40 ~ 158 °F) EN50155



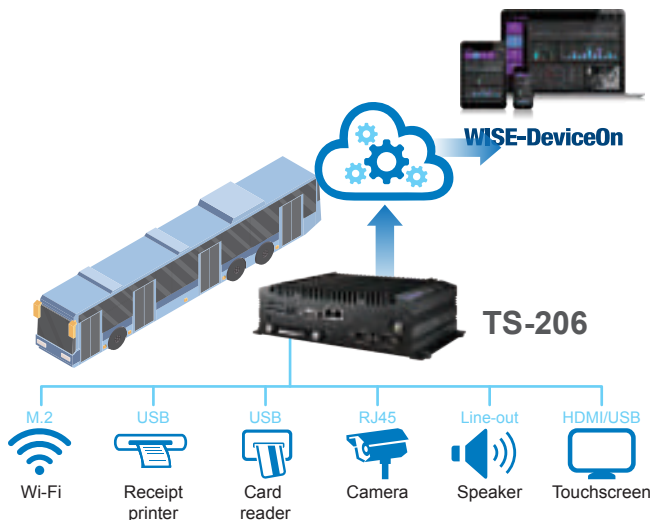


Application Stories

AI-enabled Real-time Remote Fleet Management Solutions

Application Requirement

Driver behavior has direct effects on traffic safety. Presently, AI can effectively track and monitor driver behavior and vehicle statuses to avoid accidents. Systems used for AI-based driver safety detection require ruggedized designs and multiple I/O to fit in-vehicle environments. Likewise, they require advanced computing/graphics performance, and wireless connectivity.



TS-206

AI-driven Smart Fleet Management System

- Adheres to E-Mark, ISO 7637-2, and IEC 60721-3-5 certifications
- High performance powered by Intel Core i7-6600U
- Ruggedized design with -20 ~ 60 °C (-4 ~ 140 °F) operating temp.
- Peripheral integration services (Wi-Fi/4G/ touchscreen)



Application Stories

Ruggedized Internationally Certified Systems Improve Road Safety

Application Requirement

Public transportation is an essential component of modern economies. An Australian service provider was looking for ruggedized, reliable, and internationally certified equipment capable of operation in harsh environments. Advantech provided multi-extension slots for 4G LTE, Wi-Fi, and GPS modules that enable real-time monitoring and tracking systems. These features enhanced train safety and provided abnormality-warning functions.



ARK-2250R

Ruggedized Transportation System

- Adheres to EN50155, EN50121, IEC61373 certifications
- Up to 8ch x 1080p @30fps IP camera connection for video surveillance
- Supports dual LTE Cat6 300/50Mbps bandwidth
- Supports dual Wi-Fi extension as hot spot point
- Ultra wide operating temp. -40 ~70 °C (-40 ~ 158 °F)

Intelligent Transportation Solutions



Application		Outdoor NVR			In-Vehicle
Model Name		ARK-2121S	ARK-2151S	ARK-2250S	ARK-2121V
Processor System	CPU	Intel Atom® E3845	4th Gen Intel® Core™ i5 4300U	6th Gen Intel® Core™ i5-6442EQ/i7-6822EQ	Intel Atom® E3825/E3845
	Frequency	1.91 GHz	1.9 GHz	1.9GHz/2.0GHz	1.33 GHz / 1.91 GHz
	Core Number	4	2	4	2/4
	BIOS	AMI EFI 64 Mbit	AMI EFI 128 Mbit	AMI UEFI 128Mbit	AMI EFI 64 Mbit
	Chipset	SoC	SoC	QM170	SoC
Memory	Technology	DDR3L 1333 MHz	DDR3L 1600 MHz	DDR4 2133MHz	DDR3L 1066/1333 MHz
	Max. Capacity	8 GB	8 GB	32 GB	8 GB
	Socket	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	2 x 260-pin SODIMM	1 x 204-pin SODIMM
Display	VGA	1 (up to 1600 x 1200)	1 (up to 1920 x 1200)	-	1 (up to 1600 x 1200)
	DDI (HDMI/DVI/DisplayPort)	1 x lockable HDMI, up to 1080P	1 x lockable HDMI, up to 4K at 24 Hz	2 x lockable HDMI, up to 1080P	1 x lockable HDMI, up to 1080P
	Multiple Display	Dual	Dual	Dual	Dual
Expansion Interface	MiniPCIe / M.2	1 x Full-size Mini PCIe 1 x Full-size Mini PCIe 2 x Full-size Mini PCIe w/SIM holders	1 x Half-size Mini PCIe 1 x Full-size Mini PCIe 2 x Full-size Mini PCIe w/SIM holders	1x M.2 (2230 E Key) 2 x Full-size Mini PCIe w/SIM holders	1 x Full-size Mini PCIe 1 x Full-size Mini PCIe 2 x Full-size Mini PCIe w/SIM holders
	SIM socket	2	2	2 (accessible)	2
Other	GPS	-	-	-	Supports GPS, GLONASS, GALILEO and OZSS signals
	G-Sensor	-	-	-	Optional
	PoE	4 x 10/100 Mbps PoE	4 x 10/100 Mbps PoE	Optional extended modules 4/8 GbE PoE (M12 D/X-coded)	4 x 10/100 Mbps PoE (E3845)
	CANBus	-	-	optional	optional
Ethernet	Controller	GbE 1: Intel I210-IT GbE 2: Intel I210-IT	GbE 1: Intel I218 GbE 2: Intel I210-IT	GbE 1: Intel i219 GbE 2: Intel i210	GbE 1: Intel I210-IT GbE 2: Intel I210-IT
Audio	Audio Interface	HD Audio	HD Audio	HD Audio	HD Audio
	Connector	3 (Line-in, Line-out, Mic-in)	3 (Line-in, Line-out, Mic-in)	3 (Line-in, Line-out, Mic-in)	3 (Line-in, Line-out, Mic-in)
	3G Voice	-	-	-	1 x Line-out, 1 x Mic-in
WatchDog Timer	Yes	Yes	Yes	Yes	
Storage	SATA	1 x 2.5" removable drive bay	1 x 2.5" removable drive bay	1 x 2.5" removable drive bay Optional 2nd 2.5" drive bay in extended modules	1 x 2.5" removable drive bay
	mSATA	1 x Full-size mSATA	1 x Full-size mSATA	1 x Full-size mSATA	1 x Full-size mSATA
I/O	USB 3.0	1	2	3	1
	USB 2.0	3	2	-	3
	GPIO	6 x DI & 2 x DO with isolation	6 x DI & 2 x DO with isolation	4 x DI & 4 x DO with isolation	6 x DI & 2 x DO with isolation
	COM Port	2 x (RS-232/422/485)	2 x (RS-232/422/485)	3 x RS-232/422/485	2 x isolated RS-232/422/485 2 x RS-232/422/485 (E3825) 2 x RS-232/422/485 (E3845)
	LAN	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45
Power	Power Supply Voltage	9 ~ 36 V _{DC} w/ isolation	9 ~ 36 V _{DC} w/ isolation	12 ~ 24 V _{DC} w/ isolation	9 ~ 36 V _{DC} w/power ignition management
	Connector	3-pin Phoenix	3-pin Phoenix	5-pin Phoenix	3-pin Phoenix
	Power Adaptor	AC to DC, 19 V _{DC} , 120W	AC to DC, 19 V _{DC} , 120W	AC to DC, 24Vdc, 150W	AC to DC, 19 V _{DC} , 120W
	Regulation	-	-	-	ISO 7637-2 lev.4
Environment	Operating Temperature (air flow 0.7 m/sec)	-30 ~ 60 °C (-22 ~ 140 °F)	-20 ~ 60 °C (-4 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)	-30 ~ 70 °C (-22 ~ 158 °F) (E3825) -30 ~ 60 °C (-22 ~ 140 °F) (E3845)
	Vibration Resistance	IEC 60068-2-64	IEC 60068-2-64	MIL-STD 810G, Method 514.6	IEC 60721-3-5 Class 5M3
	Shock Protection	IEC 60068-2-27	IEC 60068-2-27	MIL-STD 810G, Method 514.6	IEC 60721-3-5 Class 5M3
Physical Characteristics	Dimensions (W x H x D)	264 x 69.2 x 133 mm (10.3 x 2.72 x 5.2 in)	264 x 75.1 x 133 mm (10.3 x 2.95 x 5.2 in)	260 x 73 x 160 mm (10.2 x 2.8 x 6.29 in) 260 x 99.6 x 160 mm (10.2 x 3.84 x 6.29 in) with 2nd stack	264 x 69.2 x 133 mm (10.3 x 2.72 x 5.2 in)
Operating System	Microsoft Windows	Yes (Win7, 10)	Yes (Win7, 10)	Yes (Win7, 10)	Yes (Win7, 10)
	Linux	Yes (by Project)	Yes (by Project)	Yes (by Project)	Yes (by Project)
APIs	WISE-PaaS/DeviceOn	Yes	Yes	Yes	Yes
Certification	EMC	CE/FCC Class A, CCC, BSMI	CE/FCC Class A, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC Class A, CCC, BSMI
	Safety Certifications	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI	CB, UL, CCC, BSMI, NEMA TS2	UL, CCC, BSMI, CB, E-Mark

Note: "-" : means Not Applicable (N/A)



In-Vehicle			Rolling Stock	
ARK-2151V	ARK-2250V	TS-206	ARK-2231R	ARK-2250R
4th Gen Intel® Celeron® 2980U/ Core i5-4300U	6th Gen Intel® Core™ i5-6442EQ/i7-6822EQ	6th Gen Intel® Core™ i5-6300U/ i7-6600U	Intel Atom® E3845	6th Gen Intel® Core™ i5-6442EQ/i7-6822EQ
1.6 GHz / 1.9 GHz	1.9GHz/2.0GHz	2.4GHz/2.6GHz	1.91GHz	1.9GHz/2.0GHz
2	4	2 / 2	4	4
AMI EFI 128 Mbit	AMI UEFI 128 Mbit	AMI UEFI 128Mbit	AMI EFI 64-bit	AMI UEFI 128 Mbit
SoC	QM170	SoC	SoC	QM170
DDR3L 1333/1600 MHz	DDR4 2133MHz	DDR3L 1600MHz	DDR3L 1333	DDR4 2133MHz
8 GB	32G	16GB	8G	32G
1 x 204-pin SODIMM	2 x 260-pin SODIMM	2 x 204-pin SODIMM	1 x 204-pin SODIMM	2 x 260-pin SODIMM
1 (up to 1920 x 1200)	1 (up to 1920 x 1200)	1(Up to 1920 x 1200)	1 (up to 2560 x 1600)	-
1 x lockable HDMI, up to 4K at 24 Hz	1 x lockable HDMI, up to 1080P	1x lockable HDMI,Up to 1080P	1 x lockable HDMI, up to 1080P	2 x lockable HDMI, up to 1080P
Dual	Dual	Dual	Dual	Dual
1 x Half-size Mini PCIe 1 x Full-size Mini PCIe 2 x Full-size Mini PCIe w/SIM holders	1x M.2 (2230 E Key) 2 x Full-size Mini PCIe w/SIM holders	2 x Full-size Mini PCIe, 2 x Full-size Mini PCIe w/SIM holder	1 x Full-size Mini PCIe 1 x Full-size Mini PCIe 1 x Full-size Mini PCIe w/SIM holder	1x M.2 (2230 E Key) 2 x Full-size Mini PCIe w/SIM holders
2	2 (accessible)	3	1 (accessible)	2 (accessible)
Support GPS, GLONASS, GALILEO and QZSS signals	Support GPS, GLONASS, GALILEO, BeiDou and QZSS signals	Optional	Support GPS, GLONASS, GALILEO, BeiDou and QZSS signals	Support GPS, GLONASS, GALILEO, BeiDou and QZSS signals
Optional	Optional	Optional	Optional	Optional
4 x 10/100 Mbps PoE (4300U)	Optional extended modules 4/8 GbE PoE (M12 D/X-coded)	4 x 10/100 Mbps PoE (6600U)	Optional extended modules 4/8 GbE PoE (M12 D/X-coded)	Optional extended modules 4/8 GbE PoE (M12 D/X-coded)
optional	optional	Optional	optional	optional
GbE 1: Intel I218 GbE 2: Intel I210-IT	GbE 1: Intel i219 GbE 2: Intel i210	GbE1: Intel I219LM, GbE2: Intel I210-IT	GbE 1: Intel I210-IT GbE 2: Intel I210-IT	GbE 1: Intel i219 GbE 2: Intel i210
HD Audio	HD Audio	HD Audio	HD Audio	HD Audio
3 (Line-in, Line-out, Mic-in)	3 (Line-in, Line-out, Mic-in)	3 (Line-in, Line-out, Mic-in)	DB9 (Line-in, Line-out, Mic-in)	DB9 (Line-in, Line-out, Mic-in)
1 x Line-out, 1 x Mic-in	-	1 x Line-out, 1 x Mic-in	-	-
Yes	Yes	Yes	Yes	Yes
1 x 2.5" removable drive bay	1 x 2.5" removable drive bay Optional 2nd 2.5" drive bay in extended modules	1x 2.5" removable drive bay	1 x 2.5" removable drive bay Optional 2nd 2.5" drive bay in extended modules	1 x 2.5" removable drive bay Optional 2nd 2.5" drive bay in extended modules
1 x Full-size mSATA	1 x Full-size mSATA	1x Full-size mSATA	1 x Full-size mSATA	1 x Full-size mSATA
2	3	2	1 (Water-proof)	1 (Type A female)
2	-	2	2 (M12 A-Coded)	2 (M12 A-Coded)
6 x DI & 2 x DO with isolation	4 x DI & 4 x DO with isolation	6xDI & 2xDO with isolation	1 x 8bit DIO	1 x 8bit DIO
2 x isolated RS-232/422/485 2 x RS-232/422/485 (2980U) 2 x RS-232/422/485 (4300U)	3 x RS-232/422/485	2x isolated RS-232/422/485, 2x RS-232/422/485 (6300U), 2x RS- 232/422/485 (6600U)	2 x RS-232/422/485	2 x RS-232/422/485
2 x RJ45	2 x RJ45	2 x RJ45	2 x M12 X-code	2 x M12 X-code
9 ~ 36 V _{DC} w/power ignition management	12/24 V _{DC} w/power ignition management	12/24Vdc w/power ignition management	24 V _{DC} (48 V _{DC} , 72 V _{DC} , 110 V _{DC} optional)	24 V _{DC} (48 V _{DC} , 72 V _{DC} , 110 V _{DC} optional)
3-pin Phoenix	5-pin Phoenix	3-pin Phoenix	M12 A-coded	M12 A-coded
AC to DC, 19 V _{DC} , 120W	AC to DC, 24Vdc, 150W	AC to DC, 24Vdc, 150W	AC to DC, 24Vdc, 180W	AC to DC, 24Vdc, 180W
ISO 7637-2 lev.4	ISO 7637-2 Lev.4	ISO 7637-2 lev.4	EN50155 S2&C1	EN50155 S2&C1
-20 ~ 60 °C (-4 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)	-20 ~ 60 °C (-4 ~ 140 °F)	-40 ~ 70 °C (-40 ~ 158 °F) (EN50155 TX)	-40 ~ 70 °C (-40 ~ 158 °F) (EN50155 TX)
IEC 60721-3-5 Class 5M3	IEC 60721-3-5 Class 5M3, MIL-STD 810G	IEC 60721-3-5 Class 5M3	IEC61373 Category1, Class B	IEC61373 Category1, Class B
IEC 60721-3-5 Class 5M3	IEC 60721-3-5 Class 5M3, MIL-STD 810G	IEC 60721-3-5 Class 5M3	IEC61373 Category1, Class B	IEC61373 Category1, Class B
264 x 75.1 x 133 mm (10.3 x 2.95 x 5.2 in)	260 x 73 x 160 mm (10.2 x 2.8 x 6.29 in) 260 x 99.6 x 160 mm (10.2 x 3.92 x 6.29 in) with extension module	264 x 76.1 x 133 mm (10.3 x 2.99 x 5.2 in)	260 x 57 x 160 mm (10.2 x 2.24 x 6.29 in) 260 x 83.6 x 160 mm (10.2 x 3.29 x 6.29 in) with extension module	260 x 73 x 160 mm (10.2 x 2.8 x 6.29 in) 260 x 99.6 x 160 mm (10.2 x 3.92 x 6.29 in) with extension module
Yes (Win7, 10)	Yes (Win7, 10)	Yes (Win 7, 10)	Yes (Win7, 10)	Yes (Win7, 10)
Yes (by Project)	Yes (by Project)	Yes (by Project)	Yes (By project)	Yes (By project)
Yes	Yes	Yes	Yes	Yes
CE/FCC Class A, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC Class B, CCC, BSMI	CE/FCC, CCC, BSMI, EN50121-3-2	CE/FCC, CCC, BSMI, EN50121-3-2, EN50121-4
UL, CCC, BSMI, CB, E-Mark	CB, UL, CCC, BSMI, E-Mark	UL, CCC, BSMI, CB, E-Mark	UL, CCC, BSMI, CB, EN50155	UL, CCC, BSMI, CB, EN50155

Certified Designs for Transportation Applications

View More



TS-300 Series

TS-200 Series

TS-100 Series

Rolling Stock

- Lockable I/O
- Railway certification

In-vehicle Computing

- Communications diversity
- Vehicle certification

Roadside Surveillance

- High-level graphics performance
- Anti-vibration and shock proof

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