# Modernized Rolling Stock Solution for Railway Infrastructure System

Modularized design for railway solutions

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CCTV-in-train Surveillance System
Passenger Information System
Vehicle Monitoring System







IoT Solutions Alliance Premier

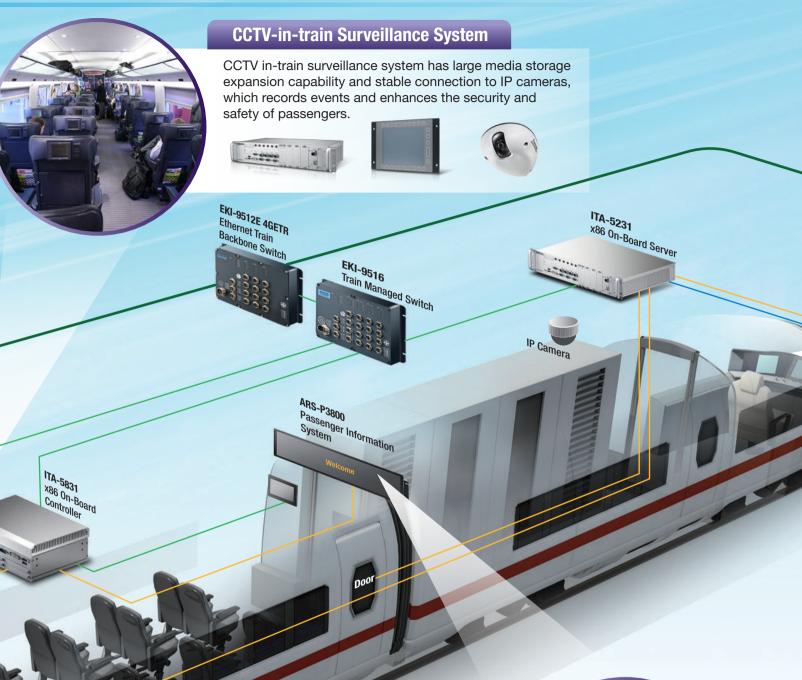
www.advantech.com

# **Comprehensive Rolling Stock Offerings for Rail**

Advantech provides a diverse product line especially for rolling stock solutions. From cameras, switches, and driver interfaces, to on-board displays and controllers, all specifically aimed at rolling stock applications, including Ethernet Train Networks, Passenger Information Systems (PIS), CCTV systems, and Vehicle Monitoring Systems. Advantech in-train products are EN 50155 and EN50121-3-2 railway standard certified, which enable them to withstand high levels of vibration and enhance their operating longevity.

### **Advantages & Key Features Expansion Flexibility High Performance Compact Size Conformal Coating Robust Design** Communication Certification EN50155 EKI-9512E 4GETR Train Managed Switch ITA-5612 Network Video Recorder Public Address muunu System IP Camera

## vay Solution



### Passenger Information System

PIS provides passenger relevant data including arrival & departure information, entertainment content, public address and emergency announcements.





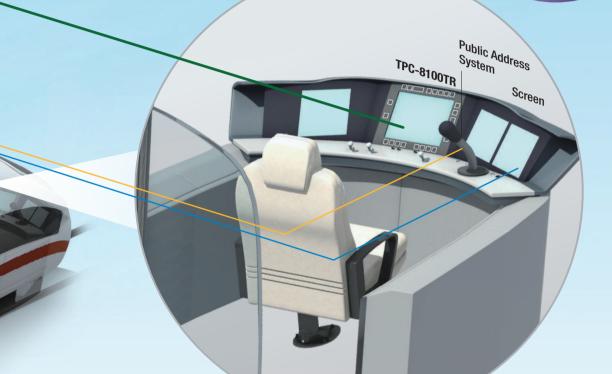


### **Vehicle Monitoring System**

Vehicle Monitoring Systems (VMS) are an interface to collect system status and failure data from vehicle sub-systems and components, and display train configuration and VMS information on displays in each cab.







### **Advantech's Proven Success in Transportation**

Whether it's a railway, freeway, airport or any other transportation system, Advantech is dedicated in its effort to provide the most stable, intelligent transportation systems for cities anywhere in the world. We are specialized in technical know-how and equipped with the domain knowledge needed to build transportation systems on the basis of individual needs and requirements. With decades of experience, our product offering for transportation has evolved into a solid portfolio of solutions. Today, we have an impressive selection of successful case stories that we are proud to share with you. Advantech is and always will be by your side, continuously delivering total solution packages to our partners and customers around the world.



### **Selection Guide**







Part Number	ITA-5831	ITA-5231	ITA-5612	
CPU	Intel® Core™ i7/i5/Celeron G3902	Intel® Core™ i7-6822EQ/i5-6442EQ/Celeron® G3902	Intel Atom X7-E3950	
Memory	8GB on bo	ard memory 4 GB on board, max 8GB		
Graphics	1 x DVI-I, 1 x	VGA, 1 x HDMI	1 x DVI-I	
Ethernet	Up to 3 x M	12 X-coded(F)	1x GbE + 2 POE M12 X-code (POE version) 2 x GbE M12 X-code (value version)	
USB		JSB3.0 M12 Connector	2 x USB 3.0 type A 1 x USB 2.0 pin header	
Expansion	3 x Mini PCIe Socket 2 x SIM slot	3 x Mini PCIe Socket 2 x SIM slot	1 x iDoor 1 x Mini PCle w/ 1 SIM card holder	
Storage	Max to 3 x 2.5" SSD(9.5mm) 1 x mSATA slot on board	Max to 4 x 2.5" SSD(9.5mm) 1 x mSATA slot on board	2 x 2.5" SSD mSATA (optional)	
Power Supply		DC 24V input (Optional DC 48/72/110V input)		
Operating Temperature		-40-70° C		
Dimension	220 x 198 x 88 mm	427 x 88 x 200 mm 210 x 205 x 71.7mm		





Part Numb	er	ARS-P3800	
Diamlaw	Display Type	38" TFT LCD panel	
Display Max Resolution		1920 x 540	
Computing	CPU	AMD®G-Series Embedded SoC GX-217GA processor	
system	Memory	DDR3 1600MHz 204-pin SODIMM (up to 8GB)	
I/O	USB	1 x USB 2.0 (M12 A-codes), 1 x USB 2.0 (Type A)	
Storage	mSATA	1 x mSATA SSD (Default 64GB)	
Power	Connector	M12 with 4 poles	
Supply	Power Input Voltage	110 VDC (+ -40%)	
<b>Operating T</b>	emperature	-40-85° C	
Dimension		1065 x 334 x 63mm	

Part Number	TPC-8100TR	
CPU	Intel® Cedar Trail Dual core processor 1.6G	
Memory	DDR3 Max 4GB	
Graphics	Integrated Intel GMA 3600 series, supports DirectX 9 and OpenGL3.0 supports HW Accelerated Decode: MPEG2, H.264, VC-1	
Ethernet	2X GbE M12 Connector	
Storage	Built in 16G CFast card	
Power Supply	110 VDC, 96 VDC, 72 VDC, 48 VDC (option), 37.5 VDC (option), 24 VDC (option)	
Operating Temperature	-30~70°C	
Dimension	227 x 345 x 85 mm	



Part Number	EKI-9500 Series	
EKI-9516/9512-WV	16/12-Port Gigabit Managed Ethernet Switch	
EKI-9516P/9512P-HV	16/12-Port Gigabit Managed Switch with PoE/PoE+, high voltage	
EKI-9516P/9512P-LV	16/12-Port Gigabit Managed Switch with PoE/PoE+, low voltage	
EKI-9516D/9512D-WV	16/12-Port 10/100 Mbps Managed Ethernet Switch	
EKI-9516DP/9512DP-HV	16/12-Port 10/100 Mbps Managed Switch with PoE/PoE+, high voltage	
EKI-9516DP/9512DP-LV	16/12-Port 10/100 Mbps Managed Switch with PoE/PoE+, low voltage	



Part Number	CPCI
MIC-3328	Intel® 3rd Generation Core™ processor blade
MIC-3329	Intel® Quad-Core Atom™ SoC processor blade
MIC-3680	2-port Isolated CAN communication blade
MIC-3955	4-port RS-232/422/485 communication blade
MIC-3957	GPS carrier blade
MIC-3958	4-port RJ45/M12 Gigabit Ethernet blade

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