

Modernized Rolling Stock Solution for Railway Infrastructure System

Modularized design for railway solutions

- ✓ CCTV Surveillance System
- ✓ Passenger Information System
- ✓ Vehicle Monitoring System



ADVANTECH

Enabling an Intelligent Planet



IoT Solutions Alliance
Premier

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Comprehensive Rolling Stock Offerings for Railways

Advantech provides a diverse product mix especially for rolling stock solutions. From switches, driver machine interfaces, panel displays and on-board controllers, we offer a comprehensive range of products, specifically targeted at rolling stock applications, including passenger information system (PIS), CCTV surveillance system, vehicle monitoring system (VMS), and Ethernet train networks. Advantech's railway products are EN 50155 and EN50121-3-2 railway standard certified and are carefully designed to ensure the highest standards of reliability, flexibility, and expandability with enhanced operating longevity.

Advantages & Key Features



High Performance



Expansion Flexibility



Compact Size



Conformal Coating



Robust Design



Communication

Certification



CCTV Surveillance System

CCTV surveillance system has large media storage expansion capability and stable connection to IP cameras, which records events and enhances the security and safety of passengers.



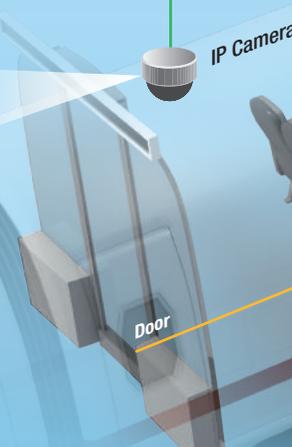
EKI-9512E-4EETB
Ethernet Train Backbone



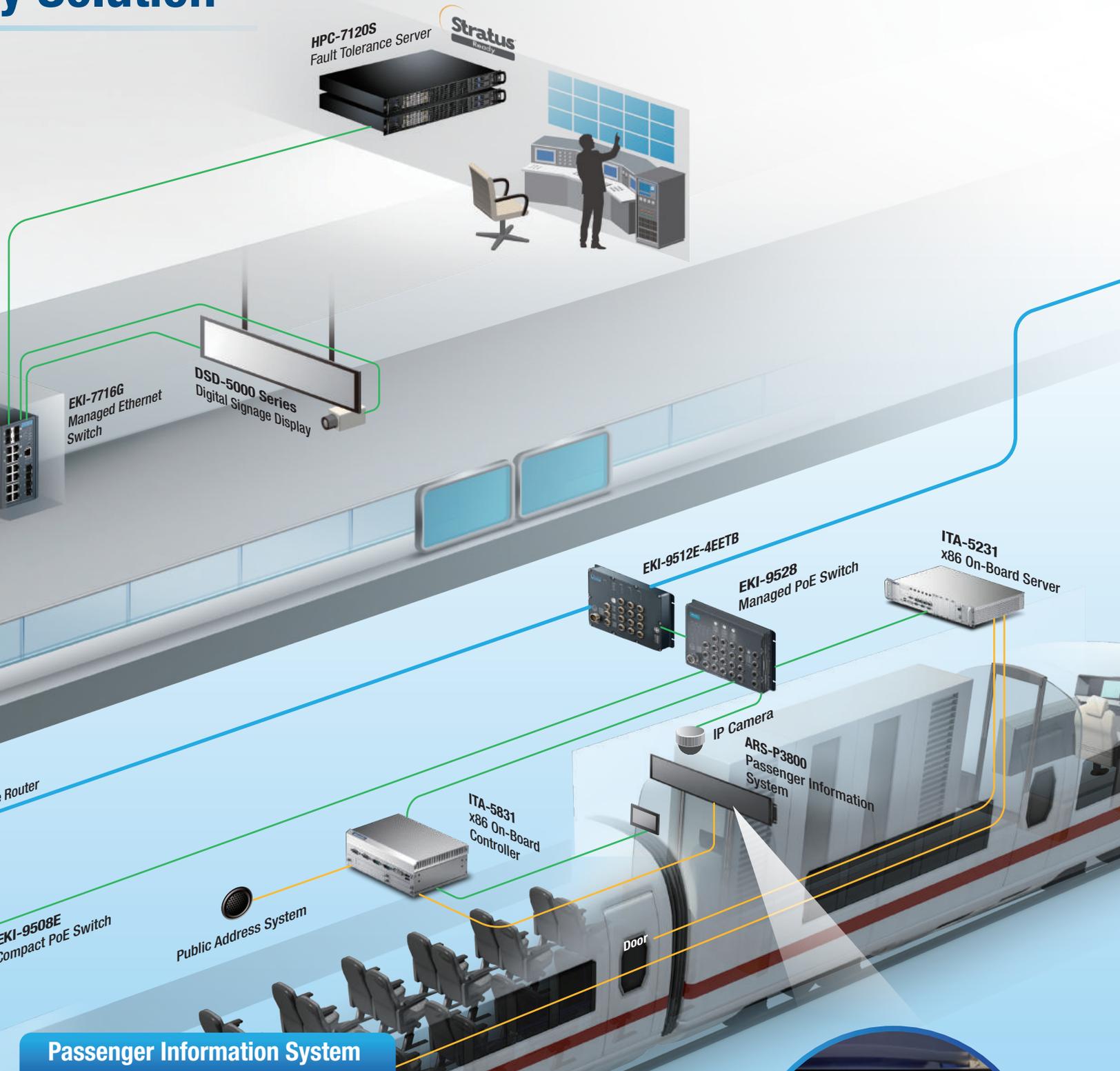
IP Camera



Door



y 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
CPU	Intel® Core™ i7-6822EQ/i5-6442EQ/Celeron® G3902	
Memory	8GB on board memory	
Graphics	1 x DVI-I, 1 x VGA	
Ethernet	Up to 3 x M12 X-coded(F)	
USB	2 x USB 3.0 with Type A 1 x USB 2.0 with M12 A-coded(F) 4-pin	
Expansion	3 x Mini PCIe Socket 2 x SIM slot	3 x Mini PCIe Socket 2 x SIM slot
Storage	Max to 3 x 2.5" SSD (2 of 7mm SSD and 1 of 7mm/9.5mm SSD) 1 x mSATA slot on board	Max to 4 x 2.5" SSD (7mm/9.5mm) 1 x mSATA slot on board
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 196 mm



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

Part Number	ITA-8120	
Display	Display Type	12.1" TFT LCD panel
	Max Resolution	1024 x 768
Computing system	CPU	Intel® Atom™ x7-E3950 quad-core processor
	Memory	DDR3L 1600MHz 204-pin SODIMM (up to 8 GB)
I/O	LAN	2 x 10/100/1000 Base-T Intel® I210 Ethernet interface (M12 X-coded)
	USB	1 x USB 2.0 (M12 A-coded)
	Series	2 x RS-422/485 (M12 A-coded 5 pin)
	Audio	Line-out, mic-in (M12 A-coded 5 pin)
Storage	M.2	1 x M.2 2242 SSD (Default 64GB)
Power Supply	Connector	4-pole M12 connector
	Power Input Voltage	24/48/72/110 VDC (±40%)
Operating Temperature	-25-70° C	
Dimension	350 x 260 x 73 mm	



Part Number	EKI-9500 Series
EKI-9512E-4EETB	12-port Ethernet Train Backbone Router
EKI-9528E-4GMP EKI-9528G-4GMP	28-port Managed Ethernet Switch with PoE
EKI-9508G-MPH/L EKI-9508E-MPH/L	8-port Full Gigabit Managed Ethernet Switch with PoE 8-port Fast Ethernet Managed Ethernet Switch with PoE
EKI-9510G-2GMPH/L EKI-9510E-2GMPH/L	10-port Full Gigabit Managed Ethernet Switch with PoE 8-port Fast Ethernet + 2 Gigabit Ethernet Switch with PoE

Description	Web-based Digital Signage Content Management System
Feature	Server-client architecture for remotely managing signage programs
	Edits and dispatches programs within 3 steps with an easy-to-use interface
	Supplies more than 10 media materials
	Supports multi-screen displays
	Provides remote device management
	Offers system backup and recovery

Regional Service & Customization Centers

China	Kunshan 86-512-5777-5666	Taiwan	Taipei 886-2-2792-7818	Netherlands	Eindhoven 31-40-267-7000	Poland	Warsaw 00800-2426-8080	USA	Milpitas, CA 1-408-519-3898
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Worldwide Offices

Greater China

China

Toll Free	800-810-0345
Beijing	86-10-6298-4346
Shanghai	86-21-3632-1616
Shenzhen	86-755-8212-4222
Chengdu	86-28-8545-0198
Hong Kong	852-2720-5118

Taiwan

Toll Free	0800-777-111
Neihu	886-2-2792-7818
Xindian	886-2-2218-4567
Taichung	886-4-2329-0371
Kaohsiung	886-7-229-3600

Middle East and Africa

Israel	072-2410527
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Asia

Japan

Toll Free	0800-500-1055
Tokyo	81-3-6802-1021
Osaka	81-6-6267-1887
Nagoya	81-52-856-9657

Korea

Toll Free	080-363-9494
Seoul	82-2-3663-9494

Singapore

Singapore	65-6442-1000
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Malaysia

Kuala Lumpur	60-3-7725-4188
Penang	60-4-537-9188

Thailand

Bangkok	66-2-248-3140
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India

Bangalore	91-80-2545-0206
Pune	91-94-2260-2349

Indonesia

Jakarta	62-21-751-1939
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Australia

Toll Free	1300-308-531
Melbourne	61-3-9797-0100

Europe

Germany

Toll Free	00800-2426-8080/81
Munich	49-89-12599-0
Düsseldorf	49-2103-97-855-0

France

Paris	33-1-4119-4666
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Italy

Milano	39-02-9544-961
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Benelux & Nordics

Breda	31-76-523-3100
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UK

Newcastle	44-0-191-262-4844
London	44-0-870-493-1433

Poland

Warsaw	48-22-31-51-100
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Russia

Moscow	8-800-555-01-50
St. Petersburg	8-800-555-81-20

Czech Republic

Ústí nad Orlicí	420-465-521-020
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Ireland

Oranmore	353-91-792444
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Americas

North America

Toll Free	1-888-576-9668
Cincinnati	1-513-742-8895
Milpitas	1-408-519-3898
Irvine	1-949-420-2500
Ottawa	1-815-434-8731

Brazil

Toll Free	0800-770-5355
São Paulo	55-11-5592-5355

Mexico

Toll Free	1-800-467-2415
Mexico City	52-55-6275-2727

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Please verify specifications before quoting. This guide is intended for reference purposes only. All product specifications are subject to change without notice.

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