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ADLINK Railw	ay Solutions
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About Us

Navigate the Digital Shift for a Smarter Journey with ADLINK

In the ever-evolving landscape of transportation, the rail industry stands at the forefront of technological advancement, driven by the transformative power of Artificial Intelligence (AI).

From optimizing operations to enhancing passenger experiences, AI has emerged as a gamechanger, revolutionizing every facet of rail transportation. As a leader in providing AI-enabled computing platforms, ADLINK empowers rail operators with cutting-edge solutions tailored to the unique demands of the industry. ADLINK's robust computing platforms serve as the backbone for critical applications such as Communication-Based Train Control (CBTC), Train Control and Monitoring Systems (TCMS), Autonomous Train Operations (ATO), Data Communication Systems (DCS), and On-Board Passenger Information System (OBIS).

By leveraging advanced AI algorithms and high-performing computing capabilities, ADLINK's platforms enable real-time data analysis, predictive maintenance, autonomous operations, seamless communication, and personalized passenger services.

ADLINK's extensive experience and proven track record in the railway market make us the ideal partner for addressing the intricate needs of modern rail. We are equipped with a globally distributed team of sales and technical support experts who stand ready to swiftly respond to customer inquiries and tailor solutions to meet specific requirements. With a proven track record of reliability, scalability, and innovation, ADLINK is committed to driving the digital transformation of the rail industry, ushering in a new era of efficiency, safety, and connectivity.



Why ADLINK?..

A Comprehensive Portfolio of Railway Solutions



Stationary



Automatic Gate Controller



Edge Al Platform



Fanless Media Player



CPCI/CPCI Serial System



Rugged Al Edge **Computing Platforms**



Onboard / Wayside (EN50155 Compliant)

Lightweight T2G Computing Platforms



OBIS



Customization ODM System



ADLINK Railway Solutions

Our EN50155 compliant line of Al-enabled platforms empowers rail providers with unparalleled flexibility to choose configurations tailored to their specific needs and facilitates a seamless journey towards railway digital transformation.

Onboard



cPCIs-R900Train-to-ground com-

munication server



AVA-7200 Fanless Scalable Railway Al Computer



AVA-1000 Train-to-ground communication gateway

OBIS



Advanced Rugged Display On-Board passenger

information display

Rugged Edge AI Computer: AVA Series

The ADLINK AVA Series encompass a comprehensive set of EN50155 compliant solutions that bring AI and the IoT (AIoT) to the railway industry. The AVA Series is expertly designed for high compute density with I/O flexibility to meet the growing demands of railways developments and provide the essential systems for harnessing AI benefits across their edge infrastructure.

ADLINK's Embedded MXM GPU modules, featuring NVIDIA's latest GPUs, enable Al-driven AVA systems to deliver real-time video analytics capabilities across divers applications in smart ATO and CCTV.

Rail system integrators can deploy Al-driven AVA systems to enhance onboard and wayside functions including:

- Railroad obstacle detection: Expedite emergency response capabilities
- Rail inspection: Real-time diagnostics to automate equipment fault detection
- Surveillance: Real-time CCTV analysis to heighten train terminal security

When installed in a specialized inspection railcar, AVA-7200 models can process images of vital wayside equipment, identify faulty equipment, and disseminate maintenance alerts while travelling at high speeds.



Harness AI technologies and deploy smart, rugged, real-time graphics/video applications vital to modern railway operations

Rugged 3U CompactPCI Processor Blade: cPCI-A3535

ADLINK continues to expand its range of EN50155 compliant CompactPCI processor blade in response to the increasing need for powerful and durable systems configured for rapid deployment.

The cPCI-A3535 flagship is a 3U, Rugged by Design, Intel Xeon blade built to operate in the challenging environmental conditions many railway operators face. The cPCI-A3535 processor blades offer a wide range of connectivity, graphics, and storage options, giving systems integrators the opportunity to select a blade according to specific applications.



Enable a wide variety of railway applications featuring optimum performance, reliability, flexibility, sustainability, and supply longevity

Following Industrial Standards

CompactPCI®

CompactPCI Serial



Powerful AI-enabled Railway Obstacle Detection

While global rail systems efficiently transport millions daily, inherent risks persist that necessitate a sophisticated security paradigm.

ADLINK's expertise proved instrumental for a European railway client with an advanced railway obstacle detection system. The clients' system relied on a combination of optical radars, digital cameras, and a host of sensors to identify railway failures or other obstacles by leveraging AI-based processing algorithms. The complexity of this application demanded significant graphics processing capability; a challenge expertly met by ADLINK's AVA-7200 Rugged Edge AI fanless platform.

ADLINK's AVA-7200 is equipped with powerful GPG-PU-assisted AI processors housed in a rugged and fanless chassis making it adept at handling diverse video analysis tasks in demanding environments. Its' proven success in real-time rail obstacle detection makes it equally suitable for analogous roles in railway terminals or specialized rail inspection cars.

ADLINK collaborates closely with transportation industry partners to empower clients and deliver AVA-7200 platforms that meet specified needs with precision. Our AVA series boasts extreme rugged construction and commits to EN50155-compliance to ensure superior performance and immediate deployment readiness for the railway obstacle detection system.



<u>Video: ADLINK's Al-enabled Video Analytics Platform</u> <u>Driving Safer and Smarter Rail Operations</u>

AVA-7200



Compliant with EN50155 regulations



Extreme rugged design suitable for challenging environments



Host of storage and connectivity options



GPGPU assisted AI processing to optimize tailored applications



Supports wide operating temperature



Wide range DC24-110V power input



Specifications

Railway AI Video Analytics based on NVIDIA Ampere GPGPU

- EN50155 certified AI platform
- NVIDIA Ampere architecture GPGPU A2000/A4500
- Intel 13th Gen mobile processor (Raptor Lake)
- Wide range DC 24-110V power input
- Fanless extended temperature support TPM 2.0
- 8x M12 X-coded 10G/2.5G ports, 5x USB, 4x SATA storage slots, 4DI/4DO, 2x Serial ports
- Internal NVME M.2 slot, 5G M.2 slot, mPCIe slot for expansion



5G Train-to-ground Communication Server

In the dynamic realm of rail transportation, reliable train-to-ground communication is paramount for numerous critical applications which necessitates a high-speed, dependable, and uninterrupted link to ensure seamless functionality.

At the heart of ADLINK's solution lies the cPCI-A3535, a 3U CompactPCI blade powered by the 11th gen Intel® core i7/Intel® Xeon® processor blade with Error-Correcting Code (ECC) capability. This powerful processing unit is complemented by dual 10G M12 Ethernet connections, providing high-speed data transmission essential for robust train-to-ground communication. The cPCI-A3535 is also EN50155-certified, guaranteeing its suitability for deployment in harsh rail environments.

What sets ADLINK apart is our forward-looking approach to supporting cutting-edge technologies such as 5G and Wi-Fi 6. By embracing these advanced wireless standards, ADLINK's 5G Train-to-Ground Communication Server meets current communication demands and future-proofs rail networks, ensuring they remain at the forefront of connectivity innovation.

ADLINK's 5G Train-to-Ground Communication Server, anchored by the robust cPCI-A3535 processor blade, represents a paradigm shift in rail connectivity solutions. With our proven reliability, global support infrastructure, extreme ruggedness, and compatibility with next-generation wireless technologies, ADLINK empowers rail operators to enhance communication efficiency and unlock new possibilities for innovation in rail transportation.

cPCI-A3535



11th gen Intel[®] core i7/Intel[®] Xeon[®] processor blade with ECC



Supports advanced wireless standards including 5G and Wi-Fi 6



Dual 10G M12 Ethernet Connection



Compliant with EN50155 regulations



Specifications

3U CompactPCI Serial 11th gen Intel® core i7/Intel® Xeon® processor blade with ECC

- Intel® Xeon® W-11555MLE 6-Core 1.9GHz Processor
- Max. 64GB DDR4-3200 by 2x SODIMMs (ECC by option)
- 80GB 3D Nand flash SSD in SLC mode
- USB 3.2, USB-C and RJ-45 iAMT front panel service ports
- 2x M12 2.5GbE / 10GbE front panel ports for on train use
- 2x 1GbE, 10x USB 2.0/3.0 and 5x SATA (RAID) to rear



Application Stories

Communication Gateway for Reliable Train to Ground Connectivity

In an always-on era, rail service providers have the opportunity to enhance passengers' quality of life by providing fast and stable connectivity that enables uninterrupted productivity throughout their journeys.

ADLINK's AVA-1000 marks a significant advancement in realizing this vision. Engineered for the modern traveler, it offers a seamless bridge between moving trains and ground networks, ensuring that passengers remain connected, informed, and productive regardless of their physical location.

The AVA-1000 is EN50155 certified with a fanless design and durability in extended temperature ranges (OT4, ST1), which ensures its reliability and performance in demanding environments. It supports both Arm based NXP i.MP 8MP and Intel based Alder Lake N platforms, providing flexibility with different technological needs and preferences. More-

over, security is paramount in AVA-1000's design. ADLINK integrates the advanced TPM 2.0 technology within its architecture to ensure the utmost data integrity and privacy protection. The AVA-1000 is also equipped with 11x QMA antennas and 3x M12 Ethernet ports to support a wide range of secure communication options.

ADLINK's AVA-1000 distinguishes itself not only through its robust performance but also through its thoughtful design, which prioritizes a compact and lightweight form. This design facilitates easy installation and makes it a practical choice for rail integrators in conditions where space is at a premium.

Uninterrupted connectivity is paramount for rail-way providers to meet the increasing expectations for superior travel experiences of modern passengers. In this landscape, ADLINK's AVA-1000 emerges as the cornerstone for delivering consistent connectivity that redefine rail travel.

Application Stories

On-Board Information System for Real-time Communication

On-Board Information Systems (OBIS) are integral to enhancing passenger experience, safety, and efficiency in modern public transportation.

By providing real-time data on upcoming stops, estimated arrival times, service disruptions, and emergency announcements, passengers can make more informed decisions and foster greater satisfaction. Moreover, OBIS can manage crowd flow and minimize congestion. Its seamless integration with various transit systems creates a cohesive transportation network that ensures travelers enjoy a convenient, reliable, and transparent journey.

As a leading provider for the transportation industry, ADLINK offers cutting-edge hardware and software tailored specifically for OBIS applications. The ARD-R3660 and ARD-R2150 series stand out for their versatility, offering multiple panel size choices to ac-

commodate diverse installation requirements across various transit environments. ADLINK's OBIS features innovative V- or T-shape system designs, enhancing accessibility for passengers while providing installation flexibility. It also incorporates anti-glare technology to ensure the uninterrupted legibility of information even in bright conditions. Additionally, ADLINK's OBIS boasts reliable performance and robust protection against dust, moisture, and harsh environmental factors with IP67-rated durability. Beyond hardware, ADLINK's OBIS is complemented with comprehensive software solutions, empowering transit operators to create engaging, informative, and responsive passenger experiences.

OBIS is critical in shaping the passenger experience and optimizing transit operations. ADLINK's ARD-R3660 and ARD-R2150 series, with their multi-panel size choices, ergonomic designs, anti-glare technology, IP67-rated durability, and comprehensive software solutions, are well-equipped to exceed the evolving needs of modern transit systems.

Rugged Fanless Railway AI Platforms



AVA-7200

Fanless Railway AI Video Analytics based on NVIDIA Ampere GPGPU

- EN50155 certified AI platform
- NVIDIA Ampere architecture GPGPU A2000/A4500
- Intel 13h Gen mobile processor (Raptor Lake)
- Wide range DC 24-110V power input
- Fanless extended temperature support TPM 2.0
- 8x M12 X-coded 10G/2.5G ports, 5x USB, 4x SATA storage slots, 4DI/4DO, 2x Serial ports
- Internal NVME M.2 slot, 5G M.2 slot, mPCleslot for expansion



AVA-1000

FanlessRailway Train to **Ground communication Gateway**

- EN50155 certified T2G platform
- Arm based NXP i.MX 8M / Intel based Elkhart Lake by option
- 3x M.2 slots: 2x for 5G modem, 1x for Wi-Fi module
- 11x QMA antenna, 3x M12 Ethernet ports
- TPM 2.0
- Wide range DC 24-100V power input, S2, C1
- Fanless extended temperature OT4, ST1
- Compact size for easy installation



AVA-5500/5600

Rugged, FanlessAI-enabled Video Analytics Platform with NVIDIA® Quadro® GPU

- 6th/7th Gen Intel® Core i7 processors
- NVIDIA® GPU MXM 3.1 Type A/B module on PCIe x16 Gen 3
- 8x M12 GbE (4x PoE), 4x RS-422, 4x USB 3.0, 1x DVI-I, 4x DisplayPort with lockable connectors; 4x isolated DI and 4x isolated DO
- Multiple storage options: 2x 2.5" SATA 6.0Gb/s drive bays, 1x M.2 2280 slot,1x CFast socket
- GNSS/3G/4G/WLAN support via 2x mPCIe slots and 2x USIM slots
- MVB/CAN bus support through mPCIe add-on modules
- Nominal power input voltage: 24VDC, 36VDC, 72VDC and 110VDC (EN50155 compliant)
- -25°C to +70°C wide operating temperature range (EN50155 class OT3)

AVA-RAGX

Fanless AIoT Video Analytics Platform with **NVIDIA Jetson AGX Xavier**

- NVIDIA Jetson AGX Xavier with 32 TOPs AI performance
- 4x M12 GbE with PoE. 1x lockable HDMI output, 4x USB 3.0
- 1x M.2 B-key for LTE/5G; 1x M.2 A/E key 2230 for Wi-Fi
- 2x CAN DB-9 CAN-FD from AGX module, with isolation
- Power with ignition control
- Nominal power input voltage: 24VDC, 36VDC, 72VDC and 110VDC (FN50155 compliant)
- -25°C to +70°C wide operating temperature range (EN50155 class OT3)

cPCI-3520

3U CompactPCI 8th/9th Gen Intel® Core, Intel® Xeon®/Celeron® Processor Blade with ECC

Quad-Core Intel Atom® X Series Processor Blade

Low power quad-core Intel Atom® x6413E Processor (Elkhart Lake)

Smart Embedded Management Agent (SEMA) for system health

Optional additional GbE ports with MIL-STD M12 connectors

Up to 32GB DDR4-2400-3200MT/s ECCsoldered memory

Optional onboard 32GB SSD support

EN50155 compliant for railway applications

- Up to 32GB DDR4-2666 soldered memory (ECC by option)
- Support sthree independent displays
- System/Peripheral slot operation
- Extended temperature support

cPCI-3640

3U CompactPCI

- Optional storage interfaces include cFast, SSD, mSATA, 2.5" SATA
- Flexible IO interfaces by mezzanine card
- Designed for EN50155 compliance

cPCI-6660

6U CompactPCI Intel[®] Atom X Series Processor Blade

- Low power quad-core Intel Atom® x6413E Processor (ElkhartLake)
- Up to 32GB DDR4-3200M T/s with IBECC by dual channel SODIMM
- Up to 4x Gigabit Ethernet ports; up to 3x RJ-45 2.5G ports on front
- 1x SATA/mSATA interface and onboard SSD
- 1x XMC site with PClex4



CompactPCI Processor Card

cPCI-3630

3U CompactPCI Quad-Core Intel Atom® X Series Processor Blade

- Up to 8GB DDR3L-1600 ECC soldered memory andonboard SSD
- Smart Embedded Management Agent (SEMA) for system health monitoring
- Optional GbE ports with MIL-STD M12 connectors
- EN50155 compliant for railway safety-critical applications
- -40°C to +70°C fanless operation (up to +85°C with airflow)
- Minimum 10 years product life support



ARD-R2150/R2150B

On-Board passenger information display system

- 21.5 inch panel size
- = 1920 x 1080 resolution
- 500nit/1000nit brightness
- i.MX 8M Plus CPU - 24 ~110VDC
- EN50155 ready



ARD-RS3660/RS3660B

On-Board passenger information display system

- 36.6 inch panel size
- 1920 x 290 resolution
- 500nit/1000nit brightness
- i.MX 8M Plus CPU
- = 24 ~110VDC EN50155 ready



cPCI-3E10/3E12

3U CompactPCI 2/4-Port Gigabit Ethernet Card

- 32-bit/33MHz, 66-bit/64M Hz CompactPCI bus
- 2x or 4x RJ-45 10/100/1000BASE-Tports on front panel
- 2x LAN ports switchable to rear
- Optional LAN port via D-Sub connector



cPCI-3548

3U CompactPCI 8-Port RS-232/422/485 COM Card

- 2x or 4x RJ-45 10/100/1000BASE-T ports on front panel
- Plug-and-play, IRQ & I/O address automatically assigned by PCI
- 8x asynchronous communications ports with intelligent buffer
- 2500 VDC signal to ground isolation voltage
- Support multiple OS
- Surge protectors and rugged DB37 connectors





CompactPCI Serial Peripherals



cPCI-A3535

3U CompactPCI Serial 11th gen Intel® core i7/ Intel[®] Xeon[®] processor blade with ECC

- Intel® Xeon® W-11555MLE 6-Core 1.9GHz Processor
- Max. 64GB DDR4-3200 by 2x SODIMMs (ECC by option)
- 80GB 3D Nand flash SSD in SLC mode
- USB 3.2, USB-C and RJ-45 iAMT front panel service ports
- 2x M12 2.5GbE / 10GbE front panel ports for on train use
- 2x 1GbE, 10x USB 2.0/3.0 and 5x SATA (RAID) to rear



cPCI-A3H20

3U CompactPCI Serial M.2/U.2/ SATA Storage Carrier

- 1x NVMe M.2 and 1x NVMe U.2 drive slot
- 1x optional SATA 6Gb/s M.2 drive slot shared space with NVMe U.2
- Status LEDs on faceplate: driveactivity, hot-swapstatus, user-configurable
- Operating temperature: -40°C to +85°C with qualified modules
- EN50155 compliant

cPCI-A3525

3U CompactPCI Serial

CompactPCI Serial 9th Gen Intel® Corei7 /

9th Gen Intel® Corei7 / Intel® Xeon® processor, 14nm process, up to

Dual channel DDR4-2666 SODIMM, up to 32GB (ECC by option)

Intel® Xeon® Processor Blade with ECC

Supports 2x PCle x8 Gen 3 and 2x PCle x4 Gen 3

Up to 10x USB 2.0/3.0, up to 7x SATA to rear

- 2x M.2 slots for 5G,LTE communication
- EN50155 compliant



cPCI-A3W20

Onboard SATA SSD storag

Wireless Networking Carrier Blade

- 12x external QMA antennas on front panel
- 1x Mini PCIe slot for GPS. Wi-Fi communication
- 8x micro-SIM holders



cPCI-A3MXM/A4500

3U CompactPCI Serial MXM GPU Carrier Card

- Compatible with MXM Type B
- NVIDIA RTXA 4500 with 5888 CUDA®cores, 46RT Cores, and 184 Tensor Cores
- 4x DisplayPort 1.4
- Operating temperature: -40°C to +60°C
- EN50155 compliant

cPCI-A3MXM/A1000

3U CompactPCI Serial MXM GPU Carrier Card

- Compatible with MXM Type A
- NVIDIA A1000 with 2048 CUDA® cores, 16 RT Cores and 64 Tensor
- 4x DisplayPort 1.4
- Operating temperature: -40°C to +70°C
- EN50155 compliant

cPCI-A3COM

3U CompactPCI Serial RS-232/422/485 COM Card

- 2x asynchronous communications ports
- All support RS-232/422/485
- Operating temperature: -40°C t o +85°C
- EN50155 compliant

cPCI-A3USB

3U Comp act PCI Serial 4-Port USB 3.2/2-Port Ethernet Card

- 4x USB 3.2 Gen 1 ports
- 2x RJ-45 ports support up t o 2.5G
- 2x independent Intel® i226IT Ethernet controllers
- Operating temperature: -40°C t o +85°C
- EN50155 compliant



cPCI-A3ETH

3U CompactPCI Serial **Ethernet Card**

5x RJ-45 ports support up to 2.5G (with PoE support optional)

Status LEDs on faceplate: drive activity, hot-swap status,

- 5x independent Intel® i226IT Ethernet controllers
- Operating temperature: -40°C to +85°C
- EN50155 compliant

cPCI-A3H10

user-configurable

Hot swap support

3U CompactPCI Serial

- 1x 2.5" SATA 6Gb/s drive slot

2.5" SATA Storage Carrier

Operating temperature: -40°C t o 85°C



cPCI-A3CAN

3U CompactPCI Serial **CAN FD Card**

- 2 High-speed CAN channels (ISO 11898-2)
- CAN FD bit rates for the data field (64 bytes max.) from 25 kbit/s up to 12 Mbit/s
- CAN bit rates from 25 kbit/s up to 1 Mbit/s
- Operating temperature: -40°C to +85°C
- EN50155 compliant



cPCI-A3M12

3U CompactPCI Serial M12 Ethernet Card

- 4x M12 x-codes support up to 10GB (by option)
- 4x independent Intel® i226IT or X710 Ethernet controllers
- Operating temperature: -40°C to 85°







Coming

Soon

cPCIS-A3100/2DC

4U 84HP CompactPCI Serial Fanless Enclosure with Backplane and Redundant Power Supply

- 19" 4U rack mount housing with 8 peripheral slots
- Comprehensiv e EMC shielding
- Equipped with wide temperature range CompactPCI redundant power supply (Max. output 600 W)

cPCIS-ET1100

3U 84HP CompactPCI Fanless Enclosure with 32-bit Backplane and Redundant Power Supply

- 19" 3U rack mount housing with 7 peripheral slots
- Comprehensiv e EMC shielding
- Equipped with wide temperature range CompactPCI redundant power supply (Max. output 500 W)
- Optional dual system segments, each with one system slot and five peripheral slots

www adlinktech com

Why ADLINK?



Technology Leadership

As a long-standing pioneer in embedded technologies, ADLINK demonstrates strong thought leadership within leading industry consortia.



Extensive Portfolio

ADLINK is dedicated to continuous development of its extensive product lines.



Strategic Partnership

Premier member of the Intel® IoT Solutions Alliance, NVIDIA Quadro Embedded Partner, OEM Preferred Partner, and Jetson Elite Partner.



Vertical Expertise

World-class in-house manufacturing facilities, rigorous quality management systems, and a secure supply chain management.



Supply Longevity

Strategic partnerships with key component and software vendors to deliver extended supply longevity and support traditionally long lifecycle defense programs.



Design Flexibility

As a leading ODM powerhouse with a flexible and agile organization, ADLINK excels in addressing rebranding, customization, and joint development effectively and efficiently.



Global Support

As a global enterprise with a strategic footprint in design, manufacturing, and service on a global scale, ADLINK optimizes customer proximity to effectively deliver products tailored to regional market specifications and requirements

6 Design Centers

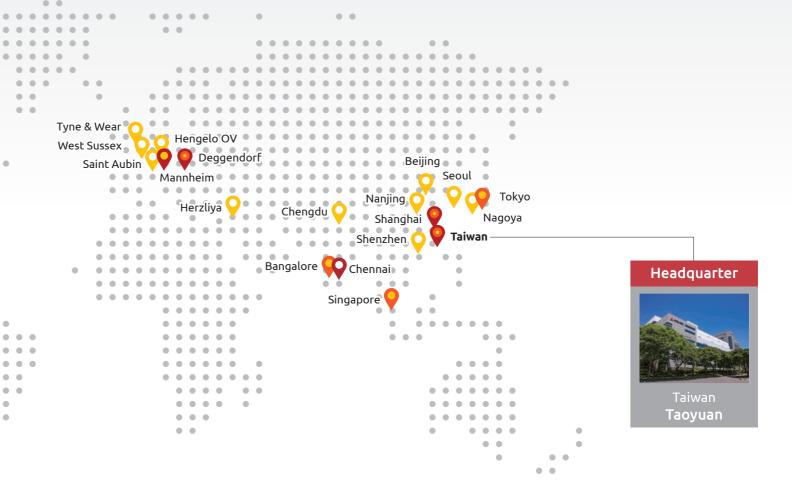
In USA, Europe, Taiwan, China and India

7 Operations & Logistics Centers

In USA, Europe and Asia

22 Support Offices

In USA, Europe, Taiwan and China





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