Railway Focused Solutions



Building Blocks that Transform, Embrace and Adapt to the Era of Digitalization

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2017

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INFORMATION, ANALYSIS, AND SAFETY CRITICAL FOR TODAY'S RAILWAY SYSTEMS

There's far more to running a 21st century rail system than moving people from one stop to another. Information, analysis, and safety now sit at the heart of everything a successful railway must provide. Customers require data and security. Operators demand more effective automation and diverse ways to enhance profitability. Rail systems integrators need proven, validated computing platforms able to deliver the performance demanded by high-bandwidth applications and the reliability to exceed long service life goals even under harsh daily conditions.



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ADLINK railway systems supply all this and much more for railway deployments that can benefit from a high-value, industrial-caliber backbone able to surpass tomorrow's IT demands.

Accurate information requires reliable systems located in trains feeding constant data streams back to the operations control center, which in turn manages train monitoring and coordination throughout the railway network. Dynamically updated reports are instantly available to every customer through in-terminal signage and Web-based apps. The same control center systems also leverage data from the entire railway system to assess live conditions and many possible outcomes that impact keeping all trains on schedule. The more effective the railway's IT system is at computing conditions and outcomes, the more passengers can count on arriving on-time.

In addition to these requirements, modern passengers also put increasing value on broadband connectivity. Wi-Fi availability is essential for mobile productivity and entertainment. Railways that can reliably supply this service can count on increased patronage and happier customers. Once these technologies are in place for the benefit of passengers, railway operators can reap their own rewards.



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TRAFFIC MANAGEMENT SYSTEMS, TRAIN CONTROL SYSTEMS & AUTOMATIC TRAIN OPERATIONS ARE IN DEMAND

The same on-train systems that supply position and conditions to central operations for scheduling also enable the monitoring of a host of additional data, ranging from the status of environmental controls to real-time power consumption. Centralized analytics can then process all of this data to produce more accurate and actionable business intelligence that will yield more dependable railway operations and higher long-term returns in all areas of the enterprise.

Some of these returns also result from increased automation. For instance, having more effective IT means that dispatchers get more information and assistance in making their routing decisions, which can reduce mistakes and enable fewer people to handle higher traffic loads.



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FOCUSED ON RELIABLE RAILWAY SOLUTIONS

Taken together, all this railway technology forms a finely tuned web of components and systems. Simply put, quality railway IT results require quality equipment, and that's where ADLINK enters the picture. ADLINK offer an extensive portfolio of application-optimized solutions built to take the constant strain of rail operation and deliver flawless results around the clock, year after year.

A key part of modern rail systems is the Automatic Train Operation (ATO) system. ADLINK provides a variety of 3U CompactPCI platforms for ATO applications, covering a wide selection of ADLINK CPU blades, I/O modules, gigabit Ethernet switches, power supplies, chassis, and more. Designed from the ground up for rugged reliability, ADLINK delivers the durable high-performance that next-generation trains require.

Integrated with the ATO, ADLINK's Driver Machine Interface provides a localized, touch-based command center for monitoring and controlling train systems while staying in contact with the operation center's Traffic Control system. Inside each rail car, you'll find an ADLINK control system. These rugged fanless embedded computers pack surprising compute and storage density into power-efficient form factors able to take the pounding of non-stop railway travel. Applications enabled by these in-cabin systems can include video surveillance, passenger Wi-Fi, and playback of multimedia content to the Passenger Information System.



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RUGGED, MODULAR, CUSTOM-BUILT PLATFORMS

ADLINK's robust platforms already lead in several European markets, such as automation and defense. The same quality and performance behind this success is now available to railways around the world, validated with compliances such as EN 50155 for the ranges of temperature, humidity, shock, and vibration trains must endure. Centralized Traffic Control, Radio Block Centers, and wayside signaling applications benefit from ADLINK's modular platforms, custom built for the rigid demands of daily railway management.

ADLINK works with clients to maximize the value of their railway IT deployments. For one worldwide railway infrastructure provider, ADLINK customized the rear I/O panel of its media displays. For another rail control system solution provider, ADLINK customized the I/O architecture of a processor blade to meet the ATO system's specific requirements.



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ADLINK IS COMMITTED TO HELPING RAILWAY CUSTOMERS TRANSFORM, EMBRACE AND ADAPT TO THE ERA OF DIGITALIZATION

ADLINK is able to supply reliable customized solutions that support multiple operating systems, provide signal integrity testing, apply component-level conformal coating, and much more. Support at every step of the solution makes ADLINK the manufacturer of choice for operators and integrators alike. ADLINK's exceptional flexibility in customized design and manufacturing services have been utilized by top embedded and vertical market providers worldwide.



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WORLDWIDE OFFICES

ADLINK Technology, Inc.

9F, No.166 Jian Yi Road, Zhonghe District
New Taipei City 235, Taiwan
新北市中和區建一路166號9樓
Tel: +886-2-8226-5877
Fax: +886-2-8226-5717
Email: service@adlinktech.com

Ampro ADLINK Technology, Inc.

5215 Hellyer Avenue, #110 San Jose, CA 95138, USA
Tel: +1-408-360-0200
Toll Free: +1-800-966-5200 (USA only)
Fax: +1-408-360-0222
Email: info@adlinktech.com

ADLINK Technology Singapore Pte. Ltd.

84 Genting Lane #07-02A, Cityneon Design Centre,
Singapore 349584
Tel: +65-6844-2261
Fax: +65-6844-2263
Email: singapore@adlinktech.com

ADLINK Technology Singapore Pte Ltd. (Indian Liaison Office)

#50-56, First Floor, Spearhead Towers
Margosa Main Road (between 16th/17th Cross)
Malleswaram, Bangalore - 560 055, India
Tel: +91-80-65605817, +91-80-42246107
Fax: +91-80-23464606
Email: india@adlinktech.com

ADLINK Technology Japan Corporation

〒101-0045 東京都千代田区神田鍛冶町3-7-4
神田374ビル4F
KANDA374 Bldg. 4F, 3-7-4 Kanda Kajicho,
Chiyoda-ku, Tokyo 101-0045, Japan
Tel: +81-3-4455-3722
Fax: +81-3-5209-6013
Email: japan@adlinktech.com

ADLINK Technology, Inc. (Korean Liaison Office)

경기도 성남시 분당구 수내로46번길4 경동빌딩 2층
(수내동 4-4번지) (우) 463-825
2F, Kyungdong B/D, 4 Sunae-ro 46beon-gil, Bundang-gu,
Seongnam-si, Gyeonggi-do, Korea, 463-825
Toll Free: +82-80-800-0585
Tel: +82-31-786-0585
Fax: +82-31-786-0583
Email: korea@adlinktech.com

PENTA ADLINK Technology GmbH

Ulrichsbergerstrasse 17
94469 Deggendorf, Germany
Tel: +49 (0) 991 290 94 – 10
Fax: +49 (0) 991 290 94 - 29
Email: emea@adlinktech.com

ADLINK Technology (China) Co., Ltd.

上海市浦东新区张江高科技园区芳春路300号 (201203)
300 Fang Chun Rd., Zhangjiang Hi-Tech Park
Pudong New Area, Shanghai, 201203 China
Tel: +86-21-5132-8988
Fax: +86-21-5192-3588
Email: market@adlinktech.com

ADLINK Technology Beijing

北京市海淀区上地东路1号盈创动力大厦E座801室(100085)
Rm. 801, Power Creative E, No. 1 Shang Di East Rd.
Beijing, 100085 China
Tel: +86-10-5885-8666
Fax: +86-10-5885-8626
Email: market@adlinktech.com

ADLINK Technology Shenzhen

深圳市南山区科技园南区高新南七道数字技术园
A1栋2楼C区 (518057)
2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7
High-Tech Industrial Park S., Shenzhen, 518054 China
Tel: +86-755-2643-4858
Fax: +86-755-2664-6353
Email: market@adlinktech.com

LiPPERT ADLINK Technology GmbH

Hans-Thoma-Strasse 11, D-68163 Mannheim, Germany
Tel: +49 621 43214-0
Fax: +49 621 43214-30
Email: emea@adlinktech.com

ADLINK Technology, Inc. (French Liaison Office)

6 allée de Londres, Immeuble Ceylan 91940 Les Ulis, France
Tel: +33 (0) 1 60 12 35 66
Fax: +33 (0) 1 60 12 35 66
Email: france@adlinktech.com

ADLINK Technology, Inc. (Israel Liaison Office)

27 Maskit St., Corex Building PO Box 12777
Herzliya 4673300, Israel
Tel: +972-54-632-5251
Fax: +972-77-208-0230
Email: israel@adlinktech.com

ADLINK Technology, Inc. (UK Liaison Office)

Tel: +44 774 010 59 65
Email: UK@adlinktech.com

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