ADLINK
LEADING EDGE COMPUTING

Gaming Solutions



Taking Gaming to the Next Level

2024

Product Catalog

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Comprehensive Gaming Solutions

Developers of gaming devices, like lottery and slot machines, video lottery terminals, and electronic games, need to ensure continuous operation, which requires hardware stability and ease of maintenance. ADLINK Gaming Solutions satisfy these requirements and much more, leveraging ADLINK's extensive experience and long-term success in hardware design and software development. ADLINK's self-owned manufacturing base delivers products of exceptional quality and reliability for a diverse set of solutions.

ADLINK offers a comprehensive, best-in-class product portfolio, combining reliable hardware with leading-edge software stacks to reduce game design complexity. Gaming solution providers can choose from a wide range of embedded modules, carrier boards, and systems; or have ADLINK quickly develop a full-customized gaming platform that caters to specific gaming application needs.

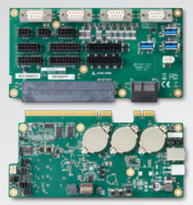
ADLINK's Product Portfolio



Gaming Platforms



Gaming Mainboards



I/O and Security Accessories for Gaming



MXM Modules and PEG Cards



General-Purpose Platforms



Computer-on-Modules (COM)



Gaming Monitors



Software Platform

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Gaming-Specific Solutions

Taking Gaming to the Next Level

Developers can focus on creating the world's best games when they take advantage of ADLINK's unique combination of computer expertise and a cutting-edge software stack developed with a deep understanding of the gaming industry's requirements and regulations. ADLINK provides developers with value-added features, including:

- Highly flexible and scalable combination of hardware technology features and software modules
- Dedicated vertical I/O and security hardware
- Dedicated vertical software stack for gaming
- Local A+ integration capabilities
- True embedded life cycle (longevity and rugged design)
- Platforms based on Intel, AMD, and NVIDIA products



Gaming Platforms

ADLINK's gaming platforms consist of highly scalable and modular hardware, and come with our Advanced Gaming Architecture to enable easy system integration with existing games as well as essential peripheral devices, thus simplifying development.



ADi-SA1X-CF

Ultimate performance gaming platform based on 8th/9th Gen Intel® Core™ processors. Supports up to 11 independent displays, including 4K UHD.



ADi-SA2X-RZ

Gaming platform based on AMD Ryzen™ Embedded R1000/V1000 Series. Supports up to eight independent displays, including 4K UHD.



ADi-SA2X-AD

High-performance gaming platform based on 12th Gen Intel® Core™ processors. Supports up to eight independent displays, including 4K UHD.



ADi-SC1X

Modular flexibility and easy upgrades with COM Express, MXM GPU module, and backplane for gaming and infotainment.



ADi-SA3X-CL

Highly scalable gaming platform based on 10th Gen Intel® Core™ processors. Supports up to seven independent displays, including 4K UHD.



ADi-SA3X-AD

Highly scalable gaming platform based on 12th Gen Intel® Core™ processors. Supports up to eight independent displays, including 4K UHD.



ADi-SA6X-AD

Compact gaming platform based on 12th/13th/14th Gen Intel® Core™ processors. Supports up to eight independent displays, including 4K UHD.

Gaming Mainboards

ADLINK's gaming boards feature Gaming Laboratories International (GLI) compliance, easy and flexible configuration, security enhancements, and system resilience.



AmITX-RZ-G

Mini-ITX embedded board with AMD® Ryzen™ APU (Accelerated Processing Unit).



AmITX-CF-G

Mini-ITX embedded board with 8th/9th Gen Intel Core desktop processor.



AmITX-AD-G

Mini-ITX embedded board with 12th/13th/14th Gen Intel Core desktop processor.

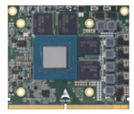


ADi-BC1X

Embedded mainboard for modular flexibility and easy upgrades with COM Express, MXM GPU module, and backplane for gaming and infotainment.

Graphics Solutions

ADLINK's GPU solutions, based on NVIDIA® Quadro® embedded GPUs, accelerate the processing and rendering of images, video, and animation. ADLINK's ARiP gaming platforms can support up to 11 displays.



EGX-MXM-A2000

Mobile PCI Express module with NVIDIA RTX™ Embedded A2000.



NVIDIA T600E

Embedded PCI express graphics card with 4GB GDDR6.



MXM-AXe

Embedded MXM GPU modules based on Intel® Arc™ architecture.



EGX-PCIE-A380E

EGX-PCIE-A380E PCI express graphics card with Intel® Arc™ A380.

I/O and Security Accessories for Gaming

ADLINK's gaming components are designed to meet application-specific needs and are compatible with ADLINK platforms.



ADi-SIOG-FPGA

Modular gaming and retail I/O controller card with battery-backed NVRAM and intrusion detection.



ADi-BSEC

Intelligent gaming and retail controller card.



ADi-BACC

Intelligent gaming and retail I/O controller card.



ADi-BAMP

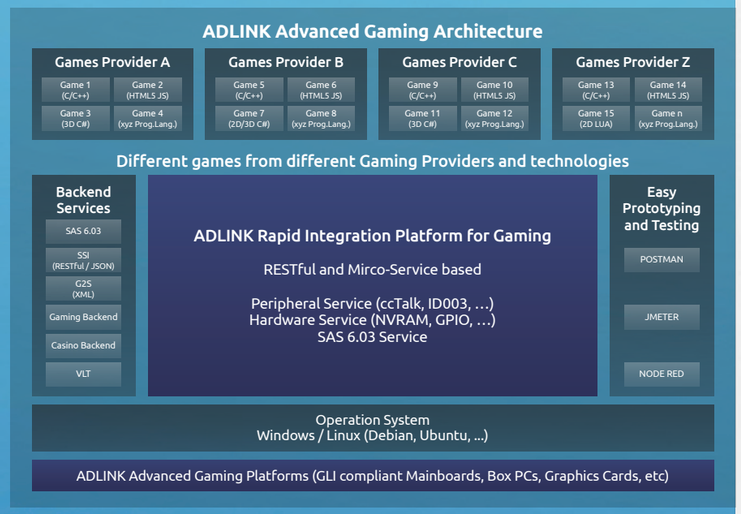
Audio amplifier card (Class D).

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Advanced Gaming Architecture

When gaming code and machine hardware are closely coupled, software developers must write code that is specific to a particular hardware platform, which increases the time and resources needed for system integration and deployment. So instead of working on value-added tasks, like writing new games, some gaming developers spend considerable time bringing up games on their hardware. This includes writing software to

- Communicate with low-level components (e.g., buttons, lamps, NVRAM, hardware-counters, system, and crypto-chip)
- Communicate with peripherals (e.g., coin/note acceptors, ticket printers, and hoppers)
- Control the computing system to optimize game performance
- Connect gaming machines to back-office transaction management systems
- Ensure the accuracy and security of financial and personal data



Fast Deployment Reduces Engineering Effort

ADLINK addresses these issues by decoupling software and hardware with its Advanced Gaming Architecture based on service-oriented architecture (SOA) that abstracts away the underlying complexity of machine hardware, so it is easier for gaming applications to:

- Interface to any manufacturer's peripherals
- Control the computing hardware and operating system
- Use standard code to connect to back-office systems

ADLINK's Advanced Gaming Architecture is a software stack including the following components:

ADLINK Gaming Layer	Hardware abstraction layer	An abstraction layer that allows digital I/O substitution without code changes; controls buttons and lamps using an interface; and simplifies third-party game development via a software simulator.
Device Abstraction Service (DAS)	API for peripherals	An application programming interface which is an abstraction layer that provides developers with an easy way to configure peripheral devices, like coin/note acceptors, ticket printers, and hoppers, without needing an in-depth knowledge of their unique communication protocols.
Hardware Abstraction Service (HWS)	API for low-level components, NVRAM	A complete middleware library that allows gaming applications to better use operating system and computing hardware resources with minimal developer coding effort.
Slot Accounting System (SAS) Engine	Software stack	The ADi-SAS stack that enables rapid SAS integration with current accounting and backend services.

In addition, ADLINK's Advanced Gaming Architecture integrates industry-standard tools, such as POSTMAN, JMeter, Node-RED, and commonly-used programming languages to ease gaming application prototyping and testing.

In summary, ADLINK Advanced Gaming Architecture enables gaming solution providers to

- Easily integrate gaming applications on their hardware of choice
- Install any gaming application on ADLINK machine hardware, even HTML5 and land-based games on the same machine
- Accelerate the launch of new game applications
- Focus on rapidly deploying new games rather than on provisioning the computing system



Gaming Monitors

Unparalleled Gaming Experiences

ADLINK delivers best-in-class gaming performance, bringing together a full range of expertise and capabilities to deliver one-stop gaming solutions for our customers. Gaming customers have terminals. ADLINK offers a full range of gaming displays to meet those needs, including curved, true flat, open-frame, and LED-framed monitors to meet wide and varied requirements in the gaming industry.

True Flat Gaming Monitors

ADLINK offers a comprehensive range of 27-inch and 32-inch true flat monitors. The GM Series is available as open frame and LED-framed monitors for embedded use or gaming cabinet mounting, and with touch and non-touch options to meet your interactivity needs.



GM-270
27" Open frame gaming monitor with touchscreen.



GM-270G
27" Open frame gaming monitor.



GM-270S
27" LED-framed gaming monitor with touchscreen.



GM-270SG
27" LED-framed gaming monitor.



GM-320
32" Open frame gaming monitor with touchscreen.



GM-320G
32" Open frame gaming monitor.



GM-320S
32" LED-framed gaming monitor with touchscreen.



GM-320SG
32" LED-framed gaming monitor.

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General Purpose Solutions

Designed to perform and last, ADLINK's embedded modules and computers enhance responsiveness and durability across gaming applications, and provide the following features:

- Reliable and competitive modules
- Fully integrated systems according to specific customer requirements
- Unique NVIDIA GPU-compatible platforms

Computer-On-Modules

In a range of form factors with competitive prices and comprehensive support, ADLINK's computer-on-module solutions enable long-term availability, and easy system evolution and upgrades by simply changing modules. We help customers reduce overall TCO (Total Cost of Ownership) by leading the upgrade of COM specifications and delivering products for the installed base market.



cExpress-MTL

COM Express® R3.1 Type 6 Compact Size Module with Intel® Core™ Ultra processors.



cExpress-AR

COM Express® Compact Size Type 6 Module with AMD Ryzen™ Embedded V2000 APU (Zen 2 architecture).



LEC-RB5(N)

SMARC Short Size Module with Qualcomm® QRB5165 Series octa-core SoC.



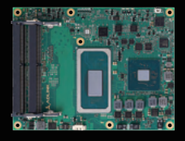
LEC-ASL

SMARC Short Size Module with Intel® Atom® x7000 series (Amston Lake) processors.



Express-RLP

COM Express Rev. 3.1 Basic Size Type 6 Module with 13th Gen Intel® Core™ Mobile Processor.



Express-TL

COM Express Basic Size Type 6 Module with 11th Gen Intel® Core™, Intel® Xeon® and Intel® Celeron® processors.



LEC-MTK-I1200

SMARC Short Size Module with MediaTek® Genio 1200 platform.



LEC-EL

SMARC Short Size Module with Intel® 6th Gen. Atom® x6000 processors.



OSM-iMX8MP

OSM Size-L Module with NXP® i.MX8M Plus series processor.



OSM-iMX93

OSM R1.1 Size-L Module with NXP® i.MX93 series processor.

ASD+ Embedded Flash Storage



S2D series

Industrial 2.5" SATA SSD offering capacities up to 8TB with options for TLC and p-SLC flash.



E3T series

Industrial M.2 2280/2242 PCIe SSD Series offering capacities from 128GB to 2TB with options for TLC and p-SLC flash.

Compact Embedded Systems

Compact yet powerful stand-alone systems featuring stable operation with built-in reliability through the use of industrial components and a rugged design.



MVP-5200

13/12th Gen Intel® processor-based compact modular industrial computers.



MVP-6200

13/12th Gen Intel® processor-based compact modular industrial computers.



DLAP-3000-CF

9/8th Gen Intel® Core™ processor-based embedded system supporting MXM graphics module.



DLAP-5200

Sleek, fanless, high-performance edge AI platform with 13th/12th Gen Intel® Core™ CPU



MXE-310 (coming soon)

Streamlined, fanless, expandable edge computing platform with 13th Gen Intel® Core™ CPU



MXE-230

Ultra-compact, fanless, low-power edge computing platform with Intel® processor N97.



MXE-210

Intel Atom processor E3900 family-based ultra compact embedded platform.



EMP-510

11th Gen Intel® Core™ i5-based fanless embedded media player.



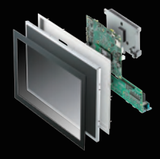
SP2-IMX8

INXP® ARM based fanless 7"/10.1" Open Frame Panel PC.



SP2-EHL

Atom® x6000E series based fanless 7"/10.1"/15.6"/21.5" Open Frame Panel PC.



SP2-TGL

11th Gen. Intel® Core™ processor-based fanless 10.1"/15.6"/21.5" open frame panel PC.



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About ADLINK

Leading EDGE COMPUTING

ADLINK Technology is leading edge computing with products and platforms that enable computing at the edge of the network, whether that network be the public Internet or an enterprise information technology (IT)/operational technology (OT) network. With the main goal of driving data-to-decisions, ADLINK provides solutions to connect the unconnected and simplify the design, development and deployment of Industrial Internet of Things (IIoT) applications.

Through the integration of computing power, rugged design, high availability and industrial I/O, ADLINK has made a name for itself providing reliable products of superior quality for cost-effective solutions. This allows our customers around the world to significantly reduce time-to-market (TTM) burdens while minimizing total cost-of-ownership (TCO) with customization and system integration advantages, keeping manufacturing costs low and extending product lifecycles.

ADLINK is a Premier Member of the Intel® Internet of Things Solutions Alliance and is active in several standards organizations and interoperability initiatives, including PCI Industrial Computer Manufacturers Group (PICMG), PXI Systems Alliance (PXISA), VMEbus International Trade Association (VITA), Standardization Group for Embedded Technologies (SGeT), European Telecommunications Standards Institute (ETSI), and Open Compute Project (OCP).

In 2018, ADLINK officially partners with NVIDIA to deliver 'AI at the Edge' solutions. Stressing ADLINK's extensive and market-proven expertise in supplying embedded and connected platforms for industrial markets such as gaming, manufacturing, telecom, defense, transportation and healthcare, this collaboration combines the strengths and core competencies of both companies in a highly synergistic way. The combination of advanced technologies provides customers with opportunities to deploy leading-edge solutions in support of operational excellence and new business models.

ADLINK is a global company with a local touch. Headquartered in Taiwan, ADLINK offers manufacturing in Taiwan and China; R&D and integration in the US, Germany, Taiwan and China; an extensive network of worldwide sales and support offices; and a continually expanding partner ecosystem. ADLINK is ISO-9001, ISO-14001, ISO-13485 and TL9000 certified and is publicly traded on the TAIEX Taiwan Stock Exchange (stock code: 6166). Our products are currently available in over 40 countries across five continents, supported by worldwide distribution networks and offices and over 1600 employees.





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