





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 selfowned 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 Mainboards







Computer-on-Modules (COM)

General-Purpose Platforms



I/O and Security Accessories for Gaming



Gaming Monitors



Graphic Cards/GPUs



SAS Advanced Gaming Architecture



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 cuttingedge software stack developed with a deep understanding of the gaming industry's requirements and regulations. ADLINK provides developers with valueadded 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-SA3X-CL

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



ADi-SA2X-RZ Gaming platform based on AMD Ryzen™ Embedded R1000/V1000 Series.

ADi-SA3X-AD





ADi-SA6X-AD Compact gaming platform based on 12th Gen Intel[®] Core™ processors. 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.

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.



Mobile PCI Express module with

NVIDIA Quadro Embedded T1000.

EGX-MXM-T1000

Gaming Mainboards

AmITX-RZ-G

Mini-ITX embedded board

(Accelerated Processing Unit).

with AMD[®] Ryzen[™] APU

enhancements, and system resilience.



EGX-MXM-A1000 NVIDIA RTX™ Embedded A1000.

I/O and Security Accessories for Gaming

AmITX-CF-G

desktop processor.

Mini-ITX embedded board

with 8th/9th Gen Intel Core

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





ADi-SIOG-LEC1 Modular gaming and retail I/ O controller card with batterybacked NVRAM and intrusion detection

ADi-BSEC Intelligent gaming and retail controller card.

ADi-SC1X Modular flexibility and easy upgrades with COM Express, MXM GPU module, and backplane for gaming and infotainment.

Highly scalable gaming platform based

on 12th Gen Intel® Core™ processors.

Supports up to eight independent

displays, including 4K UHD.



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



AmITX-AD-G Mini-ITX embedded board with 12th 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.



Mobile PCI Express module with



NVIDIA T1000E Embedded PCI express graphics card with 8GB GDDR6.



ADi-BACC Intelligent gaming and retail I/O controller card.



ADi-BAMP Audio amplifier card (Class D).



Advanced Gaming Architecture

closely coupled, software developers must write code that is specific to a particular hardware platform, which increases the time and resources

- Communicate with low-level components (e.g.,
- game performance
- Connect gaming machines to back-office
- 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-320 32" Open frame gaming monitor with touchscreen.

GM-320G 32" Open frame gaming monitor.







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



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



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



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



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

Rugged 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.



cExpress-AR

Express-RLP

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



cExpress-TL COM Express Compact Size Type 6 Module with 11th Gen Intel[®] Core™ and Celeron[®] Processors.



LEC-IMX8MP SMARC[®] Short Size Module with NXP i.MX 8M Plus.

LEC-RB5**(N)**

octa-core SoC.

SMARC Short Size Module with

Qualcomm[®] QRB5165 Series



LEC-MTK-I1200 SMARC Short Size Module with MediaTek Genio 1200 platform.







Intel[®] 6th Gen. Atom[®] x6000 processors.

LEC-EL SMARC Short Size Module with



Compact Embedded

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 12/13th Gen Intel[®] processorbased compact modular industrial computers.





DLAP-3000-CF

graphics module.

8/9th Gen Intel® Core™

system supporting MXM

processor-based embedded

MXE-1500 Intel Celeron N3160/N3060 SoC fanless embedded computer.



SP2-AL Intel Atom[®] processor-based fanless 7"/10.1"/15.6"/21.5" open frame panel PC



SP2-KL 7th Gen. Intel[®] Core™ processor-based fanless 10.1"/15.6"/21.5" open frame panel PC.



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.



COM Express Rev. 3.1 Basic Size

Type 6 Module with 12th Gen

Intel[®] Core™ processor.

Express-ADP

Express-CFR COM Express Basic Type 6 Module with Hexacore Mobile 9th Gen Intel Xeon[®], Core, Pentium, and Celeron processors.







MVP-5100-MXM

Embedded GPU workstation, supporting MXM GPU modules and a rich set of I/O.



MVP-6100-MXM

Expandable GPU workstation, supporting MXM GPU modules, frame grabber, and data acquisition.



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









About ADLINK

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).



AABLINK

In 2018, ADLINK officially partners with NVIDIA to deliver 'AI at the Edge' solutions. Stressing ADLINK's extensive and marketproven 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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