

Embedded Graphics based on NVIDIA Quadro Embedded

ADLINK's Embedded MXM GPU modules and PCIe graphics cards offer improved system responsiveness, power efficiency, and system robustness, significantly improving speed and efficiency for the artificial intelligence (AI) calculations required by edge applications.

Embedded MXM GPU modules feature high performance per watt and extended operating temperature options, ideally suited to SWaP-constrained applications in demanding environments. PCIe graphics cards maximize computing power and plug-and-play convenience to significantly boost performance for computing-intensive and performance-critical applications. Custom firmware and long product lifecycle are supported to cater to edge application requirements.

EGX-MXM-P1000



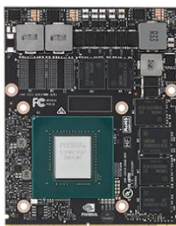
Mobile PCI Express Module with NVIDIA® Quadro® Embedded P1000

EGX-MXM-P2000



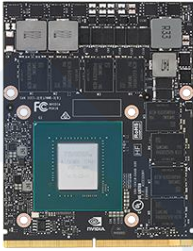
Mobile PCI Express Module with NVIDIA® Quadro® Embedded P2000

EGX-MXM-P3000



Mobile PCI Express Module with NVIDIA® Quadro® Embedded P3000

EGX-MXM-P5000



Mobile PCI Express Module with NVIDIA® Quadro® Embedded P5000

Quadro-E PEG P620



PCI Express Graphic Card with NVIDIA® Quadro® Embedded P620

Quadro-E PEG P1000



PCI Express Graphic Card with NVIDIA® Quadro® Embedded P1000

Quadro-E PEG P2200



PCI Express Graphic Card with NVIDIA® Quadro® P2200

Quadro-E PEG P4000



PCI Express Graphic Card with NVIDIA® Quadro® P4000

Edge AI Platforms based on NVIDIA Jetson

ADLINK has developed edge AI platforms based on the full spectrum of NVIDIA Jetson modules including NVIDIA® Jetson Nano™, NVIDIA® Jetson™ TX2 and NVIDIA® Jetson AGX Xavier. The latest edge AI platforms include:

M100-Nano-AINVR



Edge AI Platforms based on NVIDIA® Jetson Nano™ for AI NVR

NEON-i1000



NVIDIA® Jetson™ TX2-based AI Industrial Camera

DLAP-201-JT2



Edge AI Platform based on NVIDIA® Jetson™ TX2

M300-Xavier



Edge AI Platform based on NVIDIA® Jetson AGX Xavier™ for Autonomous Applications

ROScube-X



Real-time ROS 2 Controller based on NVIDIA® Jetson AGX Xavier™ for Autonomous Robotics

GPU Computing Platforms

ADLINK's GPU computing platforms are available with unbeatable CPU and GPU combinations, allowing system developers, OEMs, and systems integrators to construct and optimize system architecture for edge computing and AI applications. ADLINK also helps evaluate hardware and AI performance to maximize the performance of our platforms.

Edge Platforms & Embedded MXM GPU Modules

MVP-6100-MXM



Expandable GPU workstation supporting MXM GPU modules, frame grabber, data acquisition & motion control

MVP-5100-MXM



Embedded GPU workstation supporting MXM GPU module and rich I/Os

DLAP-3000-CFL



The most compact system with scalable GPU performance ideal for heterogeneous computing at the edge

EOS-i6000 Series



Compact AI GigE Machine Vision System

EOS-iX000 Series



High Performance AI GigE Machine Vision System

ADi-SC1X



Modular flexibility and easy upgrade with COM Express, MXM GPU module, and backplane for gaming & infotainment

AVA-5500 Series



Rugged, EN50155-compliant platform for real-time video/graphics analytics applications with NVIDIA Quadro® GPU MXM

HPERC-KBL



Extreme rugged, VITA-75 SWaP-optimized platform for defense with enhanced graphics processing driven by NVIDIA GPU MXM

cPCI-R6500



6U CompactPCI RTM with NVIDIA GPU MXM for additional graphics processing as a complementary part of 6U processor blades

VPX3-P5000



Rugged 3U VPX blade with NVIDIA Quadro® GPU MXM modules for data and image processing in harsh operating environments

PCIE-GIENVQ



4CH GigE frame grabber with MXM module for multiple GigE Vision connections, machine vision, and AI-enabled applications

AMSTX-CF



The only GPU parallel computing enabled Micro-STX Platform ideal for compute-intensive image processing

Edge Platforms & PCIe Graphics Cards

MVP-6100



Embedded computer with 9th Gen Intel® Core™, supporting PCIe graphics, frame grabber, data acquisition & motion control

MVP-6010/6020



Embedded computer with 6th Gen Intel® Core™, supporting PCIe graphics, frame grabber, data acquisition & motion control

MXC-6400



Rugged embedded computer with 6th Gen Intel® Core™, supporting PCIe graphics, frame grabber, data acquisition & motion control

MXC-6600



Rugged embedded computer with 9th Gen Intel® Core™, supporting PCIe graphics, frame grabber, data acquisition & motion control

ADi-SA1X



Support up to 11 displays for gaming, intelligent vending machines, and infotainment applications

ADi-SA2X



Support up to 7 displays for gaming, intelligent vending machines, and infotainment applications

CSA-7210



2U platform for next-generation networking and security applications with high processing, I/O density and scalability

MECS-7210



2U OTII standards compliant, flexible Edge Server for 5G MEC and AI applications with optional acceleration hardware

MECS-6110



1U OTII standards compliant, flexible Edge Server for 5G MEC and AI applications with optional acceleration hardware

ALPS-4800



4U carrier-grade AI training platform with advanced workload management to support up to 8 NVIDIA Tesla® accelerators

IMB-M43



Industrial ATX Motherboard with rugged I/O and best PCIe expansion for high-speed image-intensive applications

IMB-M43H



ATX Motherboard with legacy PCI expansion ready for industrial automation requiring various camera usage

IMB-M43-C236



Industrial ATX Motherboard with configurable PCIe expansion accommodating multiple cameras/frame grabbers

IMB-M45



Industrial ATX motherboard with configurable PCIe expansion ideal for compute-intensive image processing

IMB-M45H



8-core Intel® Core i empowered ATX motherboard with most PCI expansion accommodating vision/motion controllers

AmITX-SL-G



Form-fit-function design supports PEG card, AI frame grabber, data acquisition, and motion control cards

AmITX-AL-I



Form-fit-function design supports PEG card, AI frame grabber, data acquisition, and motion control cards

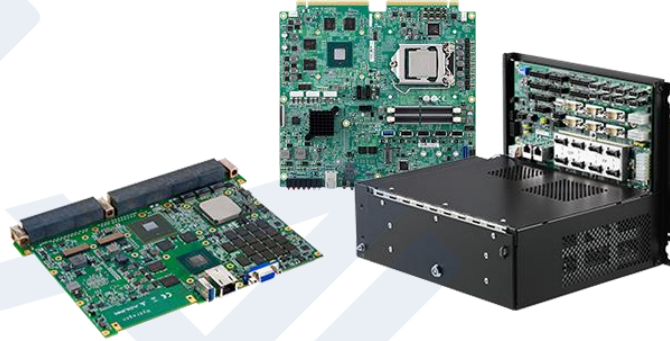
AmITX-RZ-G



Form-fit-function design supports PEG card for gaming

GPU Onboard Integration

Custom designs are often necessary to accommodate the application-specific needs of our embedded customers. With our long-term success in designing embedded modules, carrier boards, and systems, ADLINK, as an NVIDIA® Quadro® Embedded Partner, can quickly develop edge AI platforms based on NVIDIA Quadro Embedded GPUs and Jetson modules catered to specific application needs. ADLINK's experience and expertise with custom projects enables our customers to rapidly harness the power of AI at the edge.



Vertical Applications

GPUs can benefit edge applications by increasing application speed and accuracy, as well as decreasing latency. Many embedded system developers are using embedded graphics solutions in real-world applications, such as medical, manufacturing, and traffic management, as well as many other embedded segments...

Graphics is used for



Image processing



Image analysis



Compute acceleration



Artificial intelligence

Graphics is used in



Manufacturing



Maritime



Healthcare



Transport



Aerospace & Defense



Gaming