ADLINK
LEADING EDGE AI COMPUTING



Standardized Computing at
the Edge of Complexity

Reliable Edge Computing Platforms for Scalable AI Deployment

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Your Catalyst to Empower Edge AI Computing



Scalability
Seamlessly expand from prototype to mass deployment with flexible, modular designs.

Reliability
Industrial-grade performance and long-term availability for mission-critical environments.

Intelligence
AI-enabled edge computing that transforms real-time data into actionable insights.

ADLINK is a global leader in the industrial PC (IPC) and edge computing industry, delivering rugged, high-performance solutions that connect real-time data to actionable intelligence. With decades of experience in industrial design, embedded systems, and AI integration, ADLINK enables customers to accelerate digital transformation across manufacturing, transportation, retail, and healthcare. Our products are engineered for long life, reliability, and scalability—empowering mission-critical operations where performance and uptime matter most.

At the forefront of AI and edge innovation, ADLINK partners with technology leaders such as Intel, NVIDIA, MediaTek, NXP, and AMD to bring advanced edge AI computing to life. From compact edge servers and embedded vision systems to AI-enabled modules and software frameworks, ADLINK helps businesses deploy intelligent solutions faster and smarter. By combining edge computing, AI inference, and industrial reliability, ADLINK bridges the gap between devices and the cloud—empowering customers to harness data, automate processes, and create real-world value at the edge.



- Edge AI Platforms, IPCs & SSDs
- Edge AI Servers
- Edge Visualization Solutions
- Motion, Vision, Test & Measurement
- Rugged Computing Platforms
- Industrial Prototyping Kits

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DLAP — Edge AI Platform



DLAP-211-Orin

- Compact NVIDIA Jetson AGX Orin™ NX/Nano Edge AI Platform
- Provide 4 PoE and 4 USB 3.2 Gen 2, supporting up to 8 cameras, up to 275 TOPS
- Built-in Out-of-Band (OOB) module for remote device control



DLAP-411-Orin Supreme

- Compact NVIDIA Jetson AGX Orin™ Edge AI Platform
- Support NVIDIA Super Mode to increase AI TOPS by up to 1.7X, memory bandwidth by up to 1.5X, and GenAI model performance by up to 2X
- Development kit (without chassis SKU) is available



DLAP-212

- Compact NVIDIA® Jetson Orin NX/Nano™ Edge AI Platform
- Delivering up to 100 TOPS
- Compact design: 148mm x 107mm x 60.2mm



DLAP-701

- Embedded with NVIDIA Jetson NVIDIA Jetson T5000™/ T4000™
- Up to 2070 FP4 TFLOPS for multi-model generative AI workloads
- 2x GbE RJ-45, 1x QSFP (4x25GbE), USB 3.2, M.2 slots for Wi-Fi/5G/SSD



DLAP-8100

- AI IPC with Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- 2x DP++, 2x HDMI, 3x 2.5GbE, 4x COM, 8DI, 8DO, 4x USB3.2, 2x USB 3.1
- Embedded expansion: 1x M.2 2230 Key E (PCIe Gen3x1)



DLAP-5200

- High-Performance, Fanless AI IPC Based on Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- Up to 128GB DDR5 4800MHz Memory
- Supports MXM 3.1 Type A/B form factor GPU module.

MATRIX — Embedded Computer



MVP-3100/3120

- Integrated Embedded Computer with Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- Wide temperature operation from -20°C to 60°C
- QuickSet design: Simplifying system configuration & maintenance with flexible modularity



MVP-5200/6200

- Integrated Industrial Computers with Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- Scalable with ADLINK AFM (Adaptive Function Module) slot, offering custom I/O arrangement and fast application-specific access
- Wide-temp operation from -20°C to 60°C



MXE-230

- Compact Edge Computing Platform with Intel® N or Atom® X
- Multiple I/O expansion options, including M.2 and adaptive function module
- Seamlessly integrated with the Hailo-8 AI accelerator boasting 26 TOPS



MXE-310

- Compact Edge Computing Platform with 13th Gen Intel® Core™
- Supports 3 types of monitor connectors: Type-C, DP, HDMI
- Multiple I/O expansion options, including M.2 and adaptive function module

MATRIX — IoT Gateway



MXA-200

- IIoT Gateway Platform with NXP i.MX8M Plus Quad Core Processor
- 2x isolated RS-232/422/485, 2 USB 3.0, 2 GbE LAN, 1 Micro SD, 1 HDMI (1920x1080 at 60Hz)
- Support 1 M.2 2242 B-key Slot for 5G/4G/LTE, 1 M.2 2230 E-Key Slot for Wifi



MXA-312M

- MediaTek Genio 520 with dual core Arm Cortex-A78 and six core Cortex-A55, up to 10 TOPS
- Up to 8GB LPDDR4L or 16GB LPDDR5
- 2x HDMI, 2x RJ45 GbE LAN, 1x USB 3.1+1 x USB 2.0, 1x RS232+1x RS485, 1x M.2 E-Key, 1x extension function connector

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3.5" SBC



SBC35-MTL/ARL

- Intel® Core™ Ultra Processors Series 1 & Series 2
- Up to 4 displays + MIPI-CSI camera input
- Flexible SBC-FM Expansion



SBC35-RPL

- 13th Gen Intel® Core™ Processor
- Up to 4 independent displays
- Flexible SBC-FM Expansion



SBC35-ALN/ASL

- Intel® N97 Processor or Intel® x7835RE/ x7433RE/x7211RE Processor
- Wide-temp, fanless industrial-grade design
- Rich legacy I/O (COM, DI/DO, LAN)
- Flexible SBC-FM Expansion

Server Motherboard



ISB-TR10

- Supports AMD EPYC™ 9005/9004 series CPU
- 8x DIMM slots (1DPC), supporting DDR5 RDIMM 6400 MT/s
- 4x PCIe5.0 x16, 2x PCIe5.0 x8,1 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s), 4 MCIO (PCIe5.0 x8)

Mini-ITX



AmITX-RL-WV

- 14/13/12th Gen Intel® Core™ Processor
- 12–28V Wide-Range DC Input
- Dual 2.5GbE LAN for high-speed, reliable connectivity
- Multiple I/O Options with M.2, SATA, COM, and GPIO



AmITX-RL-I

- Intel® Core™ 200S Series & 14/13/12th Gen rocessors
- DDR5 up to 64GB, 4x independent displays, 2x LAN (2.5G + 1G)
- PCIe x16, multiple M.2 slots, USB3.2 Gen2/ Gen1, ATX or 12V DC-in



AmITX-ALN

- Intel® N97 Processor
- DDR4 up to 32GB for efficient multitasking
- Dual 2.5GbE LAN with wide-temp support
- Rich I/O: HDMI, DP++, COM, USB, M.2 B/E slots

4U Server



AXE-7440TR

- Supports AMD EPYC™ 9005/9004 series CPU
- Optional PCIe slot up to 4x PCIe Gen5 x16, 3x PCIe Gen5 x8 via MICO
- Up to 4x FHFLDW GPU Gen5 x16



AXE-7400SR

- Supports 5th/4th Gen Intel® Xeon® Scalable Processors
- Optional PCIe slot up to 4x PCIe Gen5 x16, 1x PCIe Gen5 x8, 1x PCIe Gen5 x8 via MICO
- Up to 4x FHFLDW GPU Gen5 x16

PICMG 1.3 SBC



NuPRO-E47

- PICMG 1.3 SHB support Intel® Core™ 200S Series & 14/13/12th Gen Core™ processor
- PCIe Gen5 and DDR5 for high-speed computing
- Flexible I/O: USB 3.2, M.2, SATA, legacy ports

ATX



IMB-M Pro Series

- Pro Series Industrial ATX support Intel® Core™ 200S Series & 14/13/12th Gen Core™ processor
- PCIe Gen5 and DDR5 for high-speed computing
- Multi-slot, high power/thermal for GPUs & cards



IMB-C Value Series

- Pro Series Industrial ATX support Intel® Core™ 200S Series & 14/13/12th Gen processors
- PCIe Gen4 and DDR4
- Essential I/O set (USB/LAN/COM) ready

IPC System



IAP-M47-4U / IAP-E47-4U

- Supports Intel® Core™ 200S Series and 14/13/12th Gen Core™ processors
- Globally Certified Reliability
- Flexible Configurations & Power Options

2U Server



AXE-7220TR

- Supports AMD EPYC™ 9005/9004 series CPU
- Up to 8x DDR5 PC-6400 MT/s DIMM slots
- Up to 2x FHFLDW GPU Gen5 x16



AXE-7220SR

- Supports 5th/4th Gen Intel® Xeon® Scalable Processors
- Optional PCIe slot up to 2x PCIe Gen4 x16 or 5x PCIe Gen4 x8
- Up to 2x FHFLDW GPU Gen4 x 16

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Industrial Open Frame Monitor



OM series

- 7"-43" LCD panel with 10-point PCAP touch
- Embedded use for easy intergration
- Mounting options: panel mount, VESA mount, desktop stand

Industrial Standalone Monitor



IM series

- 15"-27" LCD panel with 10-point PCAP touch
- Plug-and-Play for fast deployment
- Mounting options: panel mount, VESA mount, desktop stand

Medical Monitor



ACM Series

- AHVA panel
- DICOM Part 14 medical imaging standard compliance
- Full HD resolution (1920×1080 @ 60Hz) with versatile I/O (VGA / HDMI / DP)

Embedded MXM GPU Module



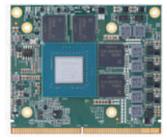
EGX-MXM-BW500

- Standard MXM 3.1 Type A form factor based on NVIDIA Blackwell Architecture
- PCIe Gen4 x8, Supports 3x DP 1.4a displays
- 6GB GDDR7 memory with 288 GB/s bandwidth, 1,792 CUDA Cores, 56 Tensor Cores, and 14 RT Cores



EGX-MXM-BW2000

- Standard MXM 3.1 Type A form factor based on NVIDIA Blackwell Architecture
- PCIe Gen4 x16, Supports 3x DP 1.4a displays
- 8GB GDDR7 memory with 384 GB/s bandwidth , 3,328 CUDA Cores, 104 Tensor Cores, and 26 RT Cores



EGX-MXM-AD2000

- Standard MXM 3.1 Type A form factor based on NVIDIA Ada Lovelace Architecture
- PCIe Gen4 x8, Supports 3x DP 1.4a displays
- 8GB GDDR6 memory with 256 GB/s bandwidth, 3,072 CUDA Cores, 96 Tensor Cores, and 24 RT Cores



EGX-MXM-AD3500

- Standard MXM 3.1 Type B form factor based on NVIDIA Ada Lovelace Architecture
- PCIe Gen4 x16, Supports 4x DP 1.4a displays
- 12GB GDDR6 memory with 432 GB/s bandwidth, 5,120 CUDA Cores, 160 Tensor Cores, and 40 RT Cores



EGX-MXM-AD5000

- Standard MXM 3.1 Type B form factor based on NVIDIA Ada Lovelace Architecture
- PCIe Gen4 x16, Supports 4x DP 1.4a displays
- 16GB GDDR6 memory with 576 GB/s bandwidth, 9,728 CUDA Cores, 304 Tensor Cores, and 76 RT Cores



MXM-AXe

- Standard MXM 3.1 Type A form factor powered by Intel® ARC™ A370E/A350E GPU
- PCIe Gen4 x8, Supports 4x 4K displays
- 4GB GDDR6 memory, up to 8 Xe Cores, 128 XMX AI Cores, and supports Intel OpenVINO™, OneAPI, Deep Link

Fanless Compact Box PC



EMP-510

- 11th Gen Intel® Core™ i5 BGA SoC processor
- FHD/4K/8K up to 4x independent displays
- DDR4 up to 64GB, 2x GbE, 1x COM, 4x USB

Advanced Compact Box PC



EMP-520

- Intel® Core™ Ultra 7/5 Processors
- 4x independent displays w/ EDID Emulation
- DDR5 up to 96GB, 2x 2.5GbE, 1x COM, 6x USB, Type C Thunderbolt (optional)

Industrial Mini Box PC



EMP-100

- Intel® Celeron® N6210/J6412 processor
- Support 2x HDMI output
- DDR4 up to 16GB, 1x GbE, 3x USB 3.2

Medical Box PC



MLB-3100

- ADLINK MXM graphics module support (type A/B)
- 14th Gen Intel® Core™ i3/i5/i7/i9, Celeron® processor
- Dual SODIMM for up to 64GB DDR5 non-ECC memory



MLB-3102

- ADLINK MXM graphics module support (type A/B)
- 14th Gen Intel® Core™ i3/i5/i7/i9, Celeron® processor
- 2x PCIe Gen 3 x4 expansion slot for full-height, half-length add-on card

Medical Panel PC



MLC-M

- 11th Gen Intel® Core™ i3 / i5 / i7 processors (Meteor Lake support coming soon)
- 21.5", 23.8", 27", and 32" Full HD display with PCAP multi-touch touchscreen and anti-glare coated safety glass
- Screwless, fanless design with IP54-rated ingress protection

PCI Express Graphics Card



EGX-PCIE-A380E

- Low-profile and single slot design (HHHL), powered by Intel® ARC™ A380E GPU
- PCIe Gen4 x8, Supports 4x mDP outputs
- 6GB GDDR6 memory, up to 8 Xe Cores, and supports Intel OpenVINO™, DirectX 12, Vulkan® 1.3, OpenGL® 4.6, OpenCL™ 3.0



NVIDIA RTX PRO 4000 Blackwell

- Blackwell GPU Power: 8,960 CUDA, 280 Tensor, 70 RT cores
- 24GB GDDR7 ECC RAM
- Compact 140W Design: Full-height/ medium-length with 4x DP 2.1 support



NVIDIA RTX 2000E ADA

- Ada Lovelace GPU: 2,816 CUDA cores and 88 Tensor cores
- 16GB GDDR6 memory in compact half-height/half-length PCIe Gen4x8 design
- Reliable & Versatile: 5-year longevity with 4x mDP 1.4 support

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SoftMotion



SuperCAT

- High-performance Soft EtherCAT controller supporting 125 µs control cycle
- Supports up to 128-axis synchronous motion control
- Executes user-defined motion tasks through the User Task Framework in SuperCAT RTOS

EtherCAT Motion Card



PCIe-8332/8334/8338

- PCIe® x1 compliant with up to 4-axis control and 10,000 I/O points via EtherCAT (250 µs cycle)
- 4-ch isolated DIO with e-stop input and 1-ch pulsar input
- Point-table functions with 16D linear, 3D circular, and 3D spiral interpolation

Centralized Motion Card



PCIe-8154/8158

- 16-ch DI/DO motion card supporting up to 12 cards per system
- Up to 6.5 MHz output with OUT/DIR, CW/CCW, and AB-phase modes
- Supports linear, circular, helical, and continuous interpolation with e-stop input and on-the-fly override

AI Smart Camera



NEON-2000 Series

- Integrates Jetson Xavier NX, image sensor and vision software suites, and supports C-mount lenses
- All-in-one design with USB Type-C port for video/ power
- FPGA-based DI/O, plus 1x LAN and 1x COM

Frame Grabber



PCIe-U300 Series

- PCIe Gen 2 x4, 4/8 USB 3.1 Gen 1 Type-A ports (Fresco FL1100 host controller)
- Up to 20W from PCIe bus or 60W via Molex, up to 1500 mA per port, software-programmable per-port Power Control
- Supports multiple cards and cameras in one system with easy-to-use API



PCIe-GIE74V

- PCIe x4, four independent Gigabit Ethernet ports, supports multiple cards/cameras in one system
- IEEE 802.3af compliant, PD auto detection & classification, delivers up to 60W with built-in PoE protection
- 0°C to +55°C operating range with non-drop frame capture, ideal for extreme environments



PCIe-CPL64V Full

- Supports 1CH Camera Link® (Full / Medium / Base) with PoCL safe power and auto-detection.
- Delivers up to 850 MB/s aggregated camera data transfer rate for high-speed image capture.
- Supports multi-card synchronization within a single PC, up to four cards.

Multi-function DAQ card



PCIe-9100 Series

- Integrates AI, AO, DI, DO, 2-channel encoder, and Pattern Match
- Up to 16-bit A/D & D/A, programmable voltage ranges, auto-calibration, DMA
- Built-in Board ID switch with user-friendly utility/SDK

Edge DAQ



SDAQ-204/216/218

- Standalone Ethernet DAQ with built-in web console for quick setup
- RESTful API and C/C#/C++/Python/LabVIEW support
- iApp deployment for on-device analytics and efficiency boost

PXIe Controller



PXIe-3900-TL Series

- 7th/9th/11th Gen Intel® Xeon®/ Core™ CPU
- 32/64 GB DDR4 dual-channel memory
- PCIe 3.0, up to 16 GB/s system bandwidth

PXIe Remote Controller



PCIe-PXIe-8638

- PCIe Gen2 x8, up to 4 GB/s per port (5 m cable)
- x4×4×4×4 or x16×8, daisy-chain/ star topologies
- HW/SW transparent for easy multi-chassis setup



PCIe-PXIe-8565

- Includes PCIe-8560 card, PXIe-8565 3U module, and 1/3/7 m ACL-EXPRESS cable
- PXI-5 PXIe Rev.1.0 and PCIe Base Spec Rev.1.0a compliant
- Up to 250 MB/s system throughput

PXIe Module



PXIe-9908

- Four-quadrant current/voltage source & measurement
- 100 nA–100 mA current sourcing/ measuring
- ±30 V (4-CH) / –10 V +20 V (8-CH), boost ±100 V (10 µA)

PXIe/PXI Chassis



PXES-2788 Series

- 18-slot, 2-link x8/x16 with up to 24 GB/s system & 8 GB/s per slot bandwidth
- Up to 102 W/slot with 0–55 °C operating range
- Low-jitter 10/100 MHz clocks (±1 ppm), dual SMA clock I/O, replaceable PSU



PXES-2785

- 18-slot with up to 24 GB/s system & 8 GB/s per-slot bandwidth
- 0–55 °C wide temp support, variable-speed cooling & replaceable fan/PSU module
- Low-jitter 10/100 MHz clocks (±1 ppm), dual BNC clock I/O, Ethernet remote management



PXES-2301

- 6-slot with up to 8 GB/s system & 2 GB/s per-slot bandwidth
- 38W/slot cooling capacity
- Replaceable fan module with auto speed control & temp/ power monitoring



PXES-2596

- 9/12-slot with up to 16 GB/s system & 4 GB/s per-slot bandwidth
- Up to 58W/slot with 0–50 °C operating range
- Support backplane + ATX PSU only, ideal for single-board users

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Passenger Information Display System



ARD-R2150

- Compliant with EN50155 standard
- Intel® Atom™ Amston Lake Processor
- 21.5" TFT LCD, 1920 x 1080 resolution



ARD-RS2860

- Compliant with EN50155 standard
- Intel® Atom™ Amston Lake Processor
- 28.6" stretched type TFT LCD, 1920 x 540 resolution

Rugged System



AVA-1000

- EN50155 compliant train to ground gateway
- Support Intel Atom® 7th Gen series Amston Lake or NXP i.MX8M Plus with Quad Cortex-A53
- Supports multiple connectivity of 5G, WiFi 6 and GNSS



AVA-7200

- EN 50155:2021 certified Edge AI platform
- NVIDIA Ampere GPGPU (A2000/A4500) and Intel® 13th Gen Raptor Lake mobile processor
- Isolated DC 24-110V (200W) or 72-110V (300W) input, configurable by BOM



AVA-7100

- EN50155 compliant fanless railway system
- Intel 13th Gen Core mobile processor (formerly Raptor Lake-P)
- Wide range DC 24-110V power input



AVA-RAGX

- 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

PC104 Single Board Computer



CMx-BTx

- Dual-core Intel Atom® Processor System-on-Chip
- 1x SODIMM slot, up to 8GB DDR3L at 1333MHz
- Extreme Rugged operating temperature -40°C to +85°C



CMx-SLx

- 6th Gen. Intel Core Processor (formerly codenamed Skylake), up to 8GB DDR4-ECC soldered memory
- 4x PCIe x1 and 1x PCIe x 16 (PEG), 2x GbE LAN, 2x SATA 6Gb/s, 1x USB 3.1, 6x USB 2.0, 2x COM, 8x GPIO
- Extreme Rugged operating temperature -40°C to +85°C



CM1-86DX3

- Ultra low power, DM&P Vortex86DX3 SoC
- Full ISA bus support
- 2GB soldered DDR3

ASD+ Enterprise Series SSD



ASD+SDC12

- 2.5” SATA Enterprise SSD
- Capacity up to 1920GB
- Sequential R/W 530/550 MB/s
- Operating temp: 0°C ~ 70°C



ASD+EDC18

- M.2 PCIe 2280/2242 Enterprise SSD
- Capacity up to 1920GB
- Sequential R/W 5500/2000 MB/s
- Operating temp: 0°C ~ 70°C



ASD+EDCP1

- U.2 PCIe Enterprise SSD
- Capacity up to 30TB
- Sequential R/W 7000/6800 MB/s
- Operating temp: 0°C ~ 70°C

ASD+ Industrial Series SSD



ASD+S2D

- 2.5” SATA SSD
- Capacity up to 8TB
- Sequential R/W 520 / 510 MB/s
- PLP, ECC, wide-temp -40°C~85°C



ASD+S7T

- 2.5” SATA & M.2 PCIe 2280/2242 SSD
- Capacity up to 2TB
- Sequential R/W 550/530 MB/s
- PLP, ECC, wide-temp -40°C~85°C



ASD+E3T

- M.2 PCIe 2280/2242 SSD
- Capacity up to 2TB
- Sequential R/W 2450/1900 MB/s
- Compact size, wide-temp -40°C~85°C



ASD+E2D

- U.2 PCIe SSD
- Capacity up to 8TB
- Sequential R/W 3300/1000 MB/s
- Compact size, wide-temp -40°C~85°C



ASD+E1T

- M.2 PCIe 2230/2242 SSD
- Capacity up to 2TB
- Sequential R/W 4900 / 3700 MB/s
- Compact size, wide-temp -40°C~85°C



ASD+E18DI

- M.2 PCIe 2280/22110 SSD
- Capacity up to 4TB
- Sequential R/W 6000 MB/s
- Compact size, wide-temp -40°C~85°C



ASD+E8D

- E1.S Pcle SSD
- Capacity up to 8TB
- Sequential R/W 7200 / 6300 MB/s
- DRAM support, wide-temp –40°C~85°C

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COM-HPC



Ampere Altra Developer Platform

- Powered by Ampere® Altra® 32/64/96/128-core SoC
- 32/64/96/128 Arm v8.2 64-bit cores up to 2.6GHz
- 3 x16 slots and 4 x4 slots PCIe Gen4



Ampere Altra Dev Kit

- Powered by Ampere® Altra® 32/64/96/128-core SoC



COM-HPC Mini Type Dev Kit

- Powered by Intel Core Ultra 5 Processor 125H/125U



COM-HPC Server Type Ice Lake-D

- COM-HPC Server Base carrier, PCIe Gen4 support

COM Express



COM Express Type 6 Ryzen 8000

- Powered by AMD Ryzen™ Embedded 8000 Series Processors
- Up to 8x Zen4 cores at 15-54W TDP
- AMD XDNA™ NPU



COM Express Type 7 Ryzen V3000

- Powered by AMD Ryzen™ Embedded V3000 Processor



COM Express Type 6 Meteor Lake

- Powered by Intel Core Ultra 5 Processor 125H with 4x Performance cores and 8x Efficient cores



COM Express Type 10 Elkhart Lake

- Powered by Intel® 6th Gen. Atom® x6211E Dual-core SoC



COM Express Type 6 Raptor Lake-P

- Powered by Intel® 13th Gen. Core™ i5-13600HE / i3-13300HE processor



COM Express Type 6 Alder Lake-P

- Powered by Intel® 12th Gen. Core™ i5-12600HE 4P+8E-core SoC

SMARC module



I-Pi SMARC Amston Lake

- Powered by Intel® 7th Gen. Atom® x7433RE quad-core SoC
- Next gen Intel® UHD graphics with 32 EUs
- LVDS, eDP, HDMI graphic outputs, MIPI-CSI 4 lanes



I-Pi SMARC IMX95

- Powered by NXP® i.MX 95 with 6x Arm® Cortex-A55, 1x Arm Cortex-M7 & 1x Arm Cortex-M33



I-Pi SMARC RB5

- Powered by Qualcomm® QRB5165 SoC with Kyro™ 585 octa-core CPU



I-Pi SMARC 1200

- Powered by MediaTek® Genio 1200



I-Pi SMARC IMX8M Plus

- Powered by NXP® i.MX 8M Plus with Quad Arm® Cortex-A53



I-Pi SMARC Elkhart Lake

- Powered by Intel® 6th Gen. Atom® x6425E Quad-core SoC

OPEN STANDARD MODULE™



I-Pi OSM MTK510

- Powered by MediaTek Genio 510 SoC with 2x Arm Cortex-A78 and 4x Arm Cortex-A55
- MediaTek DLA+VPU AI engine up to 3.2 TOPS
- Up to 8 LPDDR4, up to 128GB eMMC



I-Pi OSM IMX93

- Powered by NXP® i.MX 93 with dual-core Arm® Cortex-A55 & Cortex-M33
- In-SoC Arm Ethos-U65 microNPU
- 2GB LPDDR4L soldered, 32GB eMMC

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Retail

SMARC Module Brings Increased Customization to Automated Fare Boxes

Challenges

- **High Power Consumption & SBC Limitations**
  Traditional SBCs limited customization and efficiency.
- **Complex User Interactions**
  Touch displays, destination selection, and quick ticketing require responsive computing.
- **Rugged On-Vehicle Requirements**
  Modules must withstand vibration, temperature variations, and minimal maintenance.
- **Time-to-Market & Development Costs**
  Hardware/software integration and testing can delay deployment and increase costs.



I-Pi SMARC IMX95

Solutions

- **High-Performance, Low-Power Compute**
  Hexa-core Cortex-A55 + 2 TOPS NPU enables fast UI, secure payments, and AI features while keeping power consumption low.
- **Rich Connectivity & I/O**
  Dual GbE + 10G LAN, USB, PCIe, CAN, HDMI, and camera interfaces support touch displays, sensors, and diverse payment options.
- **Rugged Industrial Design**
  Fanless, long-life, and high MTBF module ensures reliable on-vehicle operation.

Retail

How AI-Ready Modules Are Brewing the Future of Coffee Machines

Challenges

- **Limited space**
  Compact coffee machines offer little room for additional hardware or heat dissipation.
- **Power constraints**
  AI-capable chips can be energy-intensiveunfit for energy-efficient appliances.
- **Cost sensitivity**
  Smart features must fit within tight consumer price brackets.
- **Time pressure**
  Rapid development cycles are critical to stay competitive.



I-Pi OSM MTK510

Solutions

- **Lower Cost of Ownership**
  Eliminates custom boards and simplifies certification and long-term support.
- **Faster Time-to-Market**
  Robust software ecosystem enables rapid prototyping and deployment.
- **Compact Yet Powerful**
  Small footprint with AI-capable NPUs for advanced tasks.
- **Energy-Efficient & Efficient Design**
  Optimized compute, memory, and I/O for low-power operation.

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Retail

Compact 3.5" SBC for Smart Self-Service Kiosks

Challenges

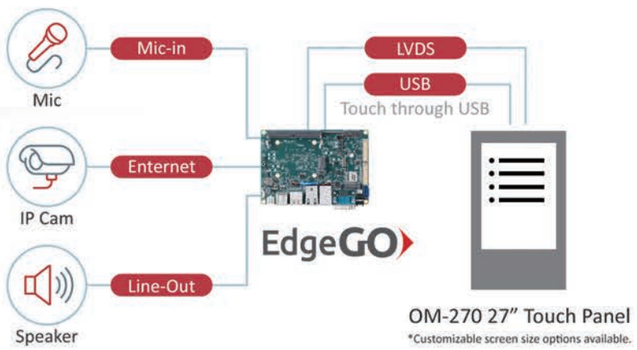
- **Limited Installation Space**
  Compact platforms required for slim kiosk enclosures.
- **24/7 Operational Reliability**
  Continuous operation needed in high-traffic retail environments.
- **Multi-Peripheral Integration**
  Supports touch panels, cameras, microphones, speakers, and payment devices.
- **Real-Time Responsiveness**
  High customer traffic demands low-latency system performance.



SBC35-ALN

Solutions

- **Fanless, Wide-Temp Design**
  24/7 durable operation.
- **Modular I/O Expansion**
  Flexible USB/COM/DI/DO.
- **Fast Kiosk Deployment**
  Quick OM-270 integration.
- **Remote Device Management**
  EdgeGO uptime monitoring.



Retail

Compact Box PCs Power Reliable, Scalable Smart Retail Applications

Challenges

- **Space Limitations:**
  Retail kiosks and POS counters required ultracompact computing with flexible installation.
- **Peripheral Integration:**
  Multiple USB devices—scanners, card readers, cameras, printers—had to be supported seamlessly.
- **Always-On Demands:**
  Retail environments needed silent, and reliable 24/7 operation.
- **Future-Proofing:**
  Retailers sought scalable performance for both media playback and emerging AI-driven analytic.



EMP-510

EMP-100



EMP-520

Solutions

- **Right-Sized Computing Tiers:**
  EMP-100 for compact media players and network video recorder (NVR), EMP-510 fanless for kiosks and lightweight gateway, and EMP-520 Intel® Core™ Ultra + NPU for advanced AI analytics.
- **Comprehensive Connectivity:**
  Multi-USB, dual LAN, serial ports, and HDMI/DP outputs for easy peripheral and display integration.
- **Industrial Reliability:**
  Fan/Fanless options, EMC/ESD robustness, and long lifecycle supply ensure stable retail operations.
- **Scalable Edge Capabilities:**
  From basic POS and signage to AI-enhanced customer engagement and traffic analytics.

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Automation

Industrial Touch Monitors Powering Smarter Factory HMIs for Automated Machinery

Challenges

- **Need for various display sizes:**
  Fit different automated machines.
- **Requirement for fast integration:**
  For PLC systems with flexible mounting options.
- **Touch sensitivity adjustment:**
  For precise operation in factory settings.
- **Demands for 24/7 stability:**
  Long product lifecycle in harsh factory environments.



OM & IM Series

Solutions

- **Complete product coverage:**
  Full size range from 7”-43” and open frame, standalone design options.
- **Easy to mount design:**
  Enabling straightforward system integration and mounting flexibility.
- **Customizable touch options:**
  Capacitive or Resistive and glove support to fit operator needs.
- **Partnering with AUO:**
  Ensures industrial-grade panel robustness, longevity, and consistent quality.



Automation

Smart AI Vision for Food & Beverage Defect Detection

Challenges

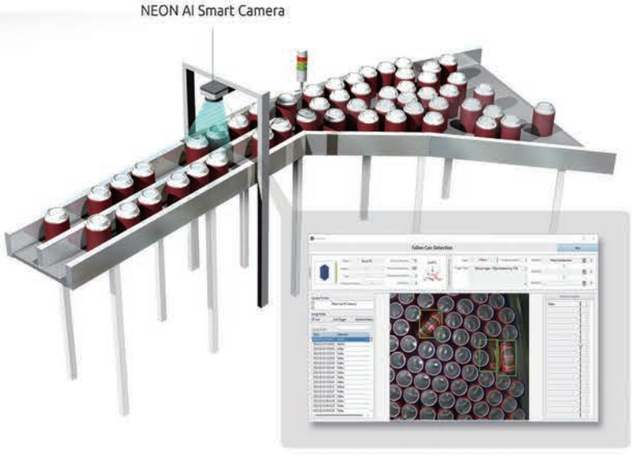
- **Limited Vision**
  Limitation of surveillance cameras and conventional AI Box PC
- **Poor Image Quality**
  Insufficient imaging of surveillance camera solution
- **Complex Integration**
  Heavy integration effort of AI Box PC



NEON-2000-JNX

Solutions

- **Compact & Powerful**
  All-in-one standalone AI vision camera with NVIDIA® Jetson Xavier NX
- **Industrial I/O Ready**
  Industrial-grade DIO for lighting or alert alarms
- **High Performance**
  Responsive AI with MIPI/USB3 raw image input, low latency, high FPS
- **Smart Video Management**
  ANSVIS with Object Detection Hub (ODHUB)



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Automation

Future-Ready PXIe Solution for EV Test & Measurement

PXI Systems Alliance

Challenges

- **Clock Sync:**
  Ensuring precise, synchronized I/O timing across multiple modules is difficult with conventional PC-based systems
- **Rising Bandwidth:**
  High data loads required higher sampling rate and resolution
- **Power and Cooling:**
  3U/4U form factor lacks of large power supplies and ventilation



PXES-2788 Series

PXIe-3900-TL Series

Solutions

- **Accurate Transmission Control Unit Testing**
  16-ch high-voltage analog output with waveform and sensor emulation
- **Faster Measurements**
  32-port multiplexer enabling parallel voltage-level reads
- **Flexible I/O Control**
  192-channel DIO with RF emulation and pattern import support
- **Real-Time Analysis**
  14-bit digitizer with synchronized FPGA processing
- **Comprehensive Vehicle Networks**
  PXI/cPCI modules for LIN, CAN, FlexRay, and MOST testing

Automation

4U Edge AI Servers Powering the Next Wave of High-Compute Micro LED AOI

NVIDIA Certified

Challenges

- **Real-time AOI: ≤10 ms end-to-end**
- **Mixed I/O & growing model complexity strain compute**
- **Consolidate 3 IPC into one Server**



AXE-7400SR

Solutions

- **Space and Function Consolidation**
  Integrated the functionalities of multiple legacy IPCs into one high-performance server, significantly reducing the equipment footprint.
- **NVIDIA Certified**
  Employed several graphics cards, providing state-of-the-art AI computing power to cope with increasingly complex AI models and meet the ≦10 ms requirement.
- **Multiple Frame-Grabber Cards**
  The system supports and is configured with multiple frame-grabber cards to efficiently receive the massive, high-bandwidth image data streams from multiple high-resolution cameras.



Industrial Camera

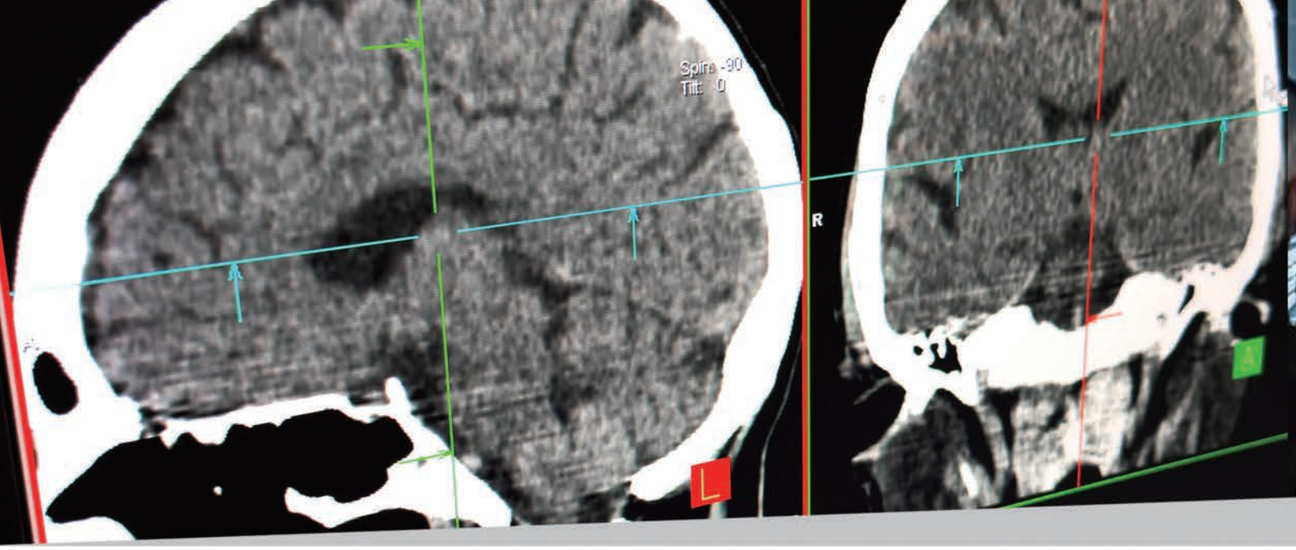


Frame Grabber Cards



GPU

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MedTech

Medical Box PC with Long-Life Support for Neuronavigation Tracking System



MLB Series



EGX-MXM-RTX3000

Challenges

- **Performance Demand**
  The new system required computing performance on par with their existing industrial PC and graphics card.
- **Lifecycle Requirement**
  Long-life CPU and GPU support was critical to secure a stable supply throughout multi-year certification and clinical deployment.
- **Space Limitation**
  Limited cabinet space made it difficult to integrate additional hardware.

Solutions

- **Performance Optimization**
  ADLINK's MedTech team collaborated with the customer to define an optimized configuration that delivered equivalent performance to their industrial PC.
- **Long-Life Assurance**
  The Medical Box PC (MLB Series) combined with the MXM GPU Module (EGX-MXM-RTX3000) ensures long-term availability, backed by Intel and NVIDIA lifecycle support.
- **Compact Integration**
  A compact form factor allows seamless integration into the customer's space-constrained system, providing a reliable and future-proof foundation for neuronavigation tracking.

Networking

ADLINK NVIDIA Ampere MXM for Edge AI Networking Deployment

Challenges



EGX-MXM-A1000

EGX-MXM-A4500

- **Harsh Environmental Conditions:**
  Ensuring stable operation of high performance GPUs in extreme temperatures, shock, vibration, dust, and moisture common in remote and tactical environments.
- **Power and Size Constraints:**
  Balancing the high computational demands of real-time video processing and analytics with limited size, weight, and power (SWaP) budgets in small-form-factor platforms necessitates optimized hardware design and power-efficient architectures.
- **Integration and Longevity:**
  Achieving seamless interoperability with legacy and modern tactical systems while ensuring long product availability (5 years).

Solutions

- **Real-time Video + AI at the Edge:**
  A4500 and A1000 MXM GPUs deliver fast encoding/decoding and object detection for low-latency defense and emergency insights.
- **Built for Harsh Conditions:**
  Rugged MXM modules that stay reliable through vibration, extreme temps, dust, and moisture.
- **Long-Term Supply Assurance:**
  Guaranteed 5-year availability for both MXM modules.

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Railway

How Train-to-Ground (T2G) Gateways Are Driving the Future of Seamless Onboard and T2G Communication



AVA-1000

Challenges

- Risk of unplanned downtime, hard to guarantee service.
- Frequent power line fluctuations across countries.
- Complex SIM management on cross border routes.
- Scalability demands for mixed ARM/x86 platforms.

Solutions

- **High MTBF & Longevity:**
  Engineered for railway environments, the AVA-1000 designed and tested a MTBF of over 200,000 hours.
- **24–110 V Wide Range Power Input:**
  The fanless, maintenance-free power module accepts DC 24 – 110 V directly—eliminating bulky external converters and simplifying system integration.
- **Uninterrupted Cross-Border Operation:**
  Dual 5G modems, each supporting two SIM cards, enable automatic switching between telecom providers to ensure continuous internet access.
- **Future Proof Scalability:**
  Support both Arm and Intel x86 modules, allowing easy upgrades with minimal requalification effort. As processing needs evolve for demanding edge computing tasks, the system can be upgraded to extend its service life.

Public Safety

Integrated Fanless Embedded Computers for e-Gate



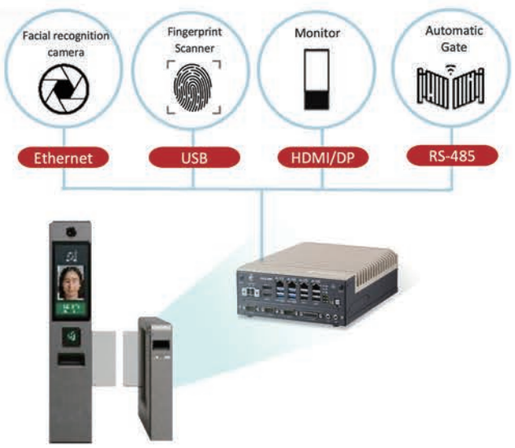
MVP-3100

Challenges

- Identity Verification Accuracy: multiple devices connected thru several types of I/O
- Limited Space: the computing platform need to be deployed into the e-gate machine
- Maintenance & Reliability in Real Environments

Solutions

- Rich I/O mix and modular expansion design of MVP-3100 provide the connecting capability.
- Fanless, short-depth chassis and front-facing I/O & right-angle cabling design can fulfill the limited space environment.
- Rugged fanless design, EdgeGO, the remote management software for all edge devices make sure the operating running smoothly.



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