


# Design & Manufacturing Services

ADLINK
LEADING EDGE COMPUTING

DMS

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# Just an idea...
# Until we build it.

We can all agree that taking an idea to market is anything but simple, especially when standard solutions fall short. Many teams don't have the time nor the resources to hurdle through complex design, testing, and verification for unique solutions across the maze of today's scattered industry standards. Throw in cost control and sourcing reliability, and suddenly that ingenious idea slips into chaos.

But getting to market doesn't have to mean going it alone. What if you had a partner who goes beyond just manufacturing? One who covers what you can't, builds with purpose, and simplifies your entire journey.

That's where ADLINK DMS+ makes the difference. Our 360° model isn't just about moving you through the motions. It's about surrounding you with everything you need, exactly when you need it. With decades of success in embedded and intelligent computing, backed by dedicated global teams and leading technology providers, we've helped partners in some of the world's most demanding industries turn bold ideas into market reality with cost-efficiency, speed, and confidence.

From first sketch to final delivery and everything in between, our DMS+ 360° approach is designed to move with you; shaped by your pace, driven by your goals, and grounded in your market reality.

***While others offer services, we offer commitment.***





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# *Great ideas need even greater partners.*

Our global service model gives you the flexibility and execution power to build anywhere with ease. We provide localized engineering support, regional assembly and installation options, and global warehousing. We also bring the advantage of a fully consolidated supply chain, covering everything from boards and panels to key peripherals.

***We deliver what great ideas truly need: scale, speed, and certainty.***

Reduce TCO

Integrated Solutions

De-Risk




Taipei, TAIWAN

## DMS+ Foundation

### Domain Expertise

Partner collaboration, product domain expertise

### R&D

Architecture, design, testing & validation, certification

### Manufacturing

Smart manufacturing, reliable supply chain, global sourcing & logistics

***One ADLINK***

***United in spirit***

***24/7 Support***

***Swift response, instant support***





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## Strategic Alliance

Titanium Tier Member

Preferred Member in NVIDIA Partner Network

Gold Partner

Strategic Partner

Powered by MediaTek Genio Partner

Embedded Partner

Technology Partner

Partner in Arm SystemReady, PSA Certified, PARSEC Compliance Program

Member of the Qualcomm® Advantage Network

Azure Certified for IoT Partner

Ubuntu Linux OS Partner

Devices qualified for AWS IoT Greengrass

BIOS Partner

# *Our alliances power your success.*

Through long-standing partnerships with industry leaders in CPU, GPU, FPGA, ASIC, and more, we bring the latest technology closer to your product.

***We help you integrate AI to advanced platforms faster and smarter.***

From system architecture optimization to seamless software and hardware integration, every layer is aligned with your performance goals and supported by thorough design verification to ensure full readiness for real-world deployment.





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# *Bringing AI to the heart of every industry.*

For over 30 years, our products have been trusted by industry-leading partners who need things to work and keep working.

## *We position you alongside AI giants, igniting your early access with time-to-market momentum.*

Our decades of experience and comprehensive portfolio lay the foundation for real-world AI success. Through a robust alliance ecosystem with leading AI providers, we co-create integrated, domain-ready platforms that accelerate deployment and scale with confidence. Every solution is designed, built, and supported by the same experts behind mission-critical, AI-powered systems, even in the most regulated and stringent environments.








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## Design Capabilities

| | | | | |
|---|---|---|---|---|
| Design for Compliance & Certification | System Architecture & Design | High-Speed Interface Design | Application-Specific Hardware Design | Edge AI Optimized Design |
| Mechanical/ID Design | Thermal Engineering | Simulation & Analysis | Power & Signal Integrity Design | Power Design & Management |
| Design for Manufacturing & Assembly | Design to Industrial Standards | BIOS & Firmware Development | Embedded Software Development | EMC/EMI-Aware Design |

# *Together we win, by design.*

### *Our design starts with your reality.*

Our design capabilities span specific function development, software applications, and full system integration. You define the level of support needed; we provide the expertise, agility, and ownership to deliver and carry it forward without the drag of misalignment, overhead, or delay.





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# *Tough certifications? We've got it covered.*

Every industry brings its own certification hurdles, performance demands, and margin for error. With deep experience across heavily regulated sectors, we know exactly what certification requires and we build validation into the process from the start to keep your launch on track.

***This ensures your product doesn't just qualify, but endures the test of time.***

## *Vertical Domain Certification*

- **Vehicle** — ECE R10, ISO 16750
- **Maritime** — EN 60945
- **Medical** — EN 60601-1-2, EN 60601-1
- **Railway** — EN 50121-3-2, EN 50121-4
- **Military** — MIL-STD-461
- **IT/Industrial** — UL/IEC 62368-1, IEC 61010-1

## *Highest Product Qualification*

- **Reliability & Stress Test**
- **Integration Test**
- **Compatibility Test**
- **Key Components Qualification**

## *Specific Function Development*

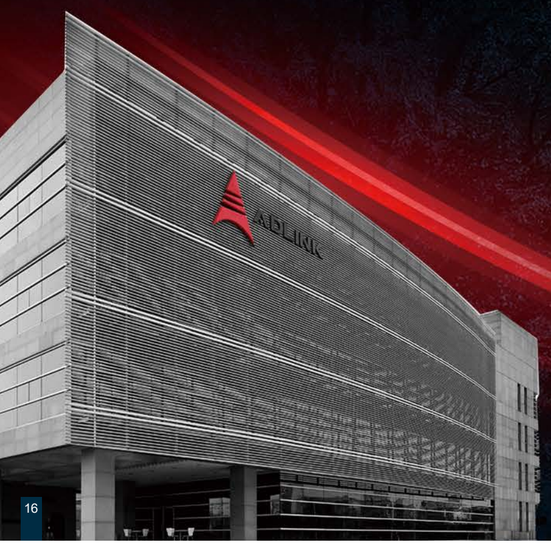
- **RF Performance & Verification**
- **Extensive Power Adaptability**
- **High-Speed Signal Measurement**
- **EMC and Safety Compliance**
- **Thermal Solutions for Wide Operating Temp.**





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# *Where your ideas become reality.*




## Supply Longevity

- BOM healthy
- Supply chain strategy
- Multiple source validation
- Manufacturing flexibility

## Serviceability

- Warranty services including
- RMA/ Repair flexibility
- Upgrades & updates
- Instant feedback & follow-up

## Smart Manufacturing

- Optimized production efficiency
- Real-time monitoring
- Data-driven decision making
- Customization at scale

## Quality Assurance

- Design for Manufacturing
- Comprehensive quality control
- Production quality consistency




## *Shanghai Manufacturing Center (SHMC)*

- ISO 9001: 2015
- TL9000
- ISO 13485: 2016
- ISO/IEC 80079-34: 2018
- ISO 14001: 2015
- ISO 45001: 2018

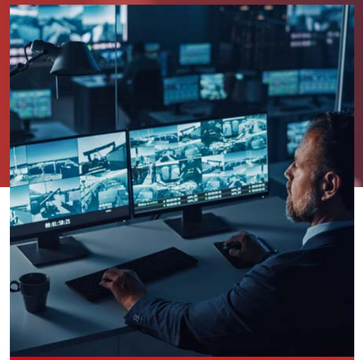
## *Taipei Manufacturing Center (TPMC)*

- ISO9001: 2015
- TL9000:2016-H
- ISO13485: 2016
- ISO/IEC 17025: 2017
- ISO/IEC 80079-34: 2018
- ISO14001: 2015
- ISO45001: 2018
- ISO14064-1:2018
- ISO26262:2018
- ITAF16949:2016
- ANSI ESD S20.20:2021
- ISO/IEC27001:2013
- RBA certified



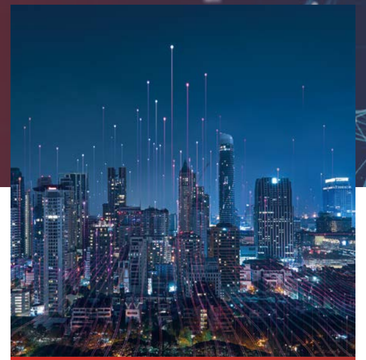
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# *Proven Success Across Key Industries*



## Edge AI & Image processing

- PoE solutions
- Jetson Orin/X86 chip down
- Embedded GPU
- Large storage design



## Smart IoT & Gateway

- 5G & LTE / GPS / WIfi
- Rugged and fanless
- Low power consumption
- Wide operation temperature



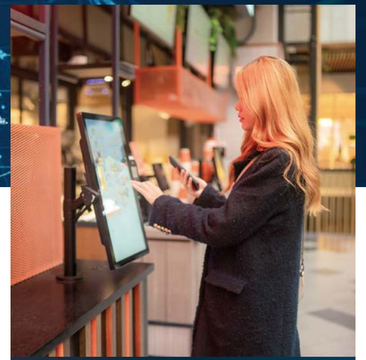
## MedTech

- Medical compliance
- Power isolation design
- Custom Integrated MB
- Image processing accelerator



## Public Safety

- Single board solution
- FPGA integration
- IEM industry application
- Security & data protection



## iRetail

- Touchscreen displays
- Sleek ID design
- Camera/Scanner/Printer support
- Security & data encryption



## Robotics

- Real-time operating system support
- Motion control integration
- Scalability and safety
- High-speed data transfer



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Success Story

# Edge AI & Image Processing

***"We needed a partner who could create a smart city AI platform for harsh environments. ADLINK made it work."– Edge AI Joint Design Partner***

*Smart city platform*

# AI-Enabled Surveillance

A smart city developer needed intelligent streetlights that could monitor traffic, detect emergencies, and cut energy waste. Their biggest challenge was ensuring AI performance in harsh outdoor conditions.
That's when they reached out to ADLINK's DMS+ through a JDM business model. Together, we co-developed a ground-breaking streetlight system powered by NVIDIA Jetson Orin. The system was equipped with camera modules that collected real-time data on traffic and crowd movement while also providing instant alarms and emergency support through automatically detecting dangerous situations. To meet environmental demands, we leveraged our hardware design expertise to engineer a custom thermal solution that ensured consistent performance even in extreme conditions. Ambient lighting sensors were also built in to automatically adjust the streetlight intensity and optimize energy savings.
The result through this JDM is a highly reliable, AI-enabled platform that keeps cities smarter, safer, and more connected.





Jetson Orin



PoE Port



Flexible Connectivity



Rugged

## Solution Features

- NVIDIA Jetson Orin NX Module with copper heatsink
- NVME SSD 128GB for OS & NVME SSD 1/2/4TB as storage
- 4x PoE+/ mPCIe LTE modem module/ SFP Fiber
- Plastic eSIM & 2x nano SIM card slot
- PSU for 54V and 12V
- Fanless solution





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# Edge AI & Image Processing

***"Working with ADLINK DMS+ got us the right balance of powerful and practical." – Image Processing ODM Partner***

*NVR*

# 24-Port AI Integrated PoE

A security solutions provider needed a powerful NVR system for enterprise and banking environments. Their goal was to go beyond basic monitoring and enable real-time AI analytics for safety alerts, business insights, and efficient video storage while balancing the challenge of cost-effectiveness and scalability.

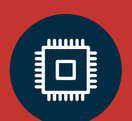
They turned to ADLINK's DMS+ for a tailored ODM solution. We supported them from design through manufacturing and delivered a flexible NVR platform built on Intel 12th Gen Core processors, scalable from i3 to i7. We reduced hardware overhead by integrating a 24-port PoE/PoE+ switch and enabling software RAID across eight removable 3.5" hard drives. To support AI processing demands, we included an embedded MXM Type A GPU module.

The result is a highly flexible, cost-efficient, and scalable NVR platform that empowers smarter surveillance with real-time insights, environmental alerts, and efficient local storage; all delivered within budget.





24 x PoE



12 gen Intel CPU



Cost Effective



Optional GPU

## Solution Features

- 12th Gen Intel® Core™ i3 processor (scalable from i3 to i7)
- 24 ports IEEE 802.3af (POE) or IEEE 802.3at (POE+) compliant ports or Non-PoE configuration
- 2 DIMM slots, up to 128GB DDR5-4800 SO-DIMM memory
- Up to 8 removable 3.5" HDD SATA III (6 Gbps)
- 1 M.2 M-Key 2280 PCIe 4.0x4 NVMe SSD
- 2 HDMI 2.0b connector





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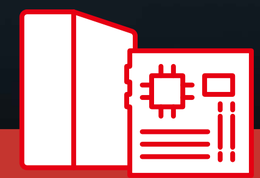

# Smart IoT & Gateway

***"They really understood what we were going for, not just functionality but also unique design requirements." – Smart IoT ODM Partner***

*Home Hub*

# IoT Gateway

A home automation provider needed a smart IoT gateway to manage the start-up and shutdown of redundant generators based on real-time load demands. They required robust wireless connectivity, reliable backup power, and a sleek design suitable for residential environments.
They partnered with ADLINK's DMS+ for ODM and we delivered a fully customized gateway powered by i.MX8M Mini ARM processor running Ubuntu and customer-specific applications. We enabled seamless connectivity through LTE, Bluetooth, Wi-Fi, and Sub-GHz, all using built-in antennas. To ensure reliable performance during outages, we integrated a smart power system with an MCU and backup battery. Our thermal team demonstrated exceptional expertise by implementing a fanless thermal solution that maintained performance while achieving an elegant, compact exterior.
The result is a stylish, reliable IoT gateway that powers intelligent home control with energy-efficiency, seamless connectivity, and silent operation.





SubG, WiFi, LTE, BLE



MCU



Low Power



Sleek and Fanless

## Product Features

- CPU: Atom 7th Gen, 8G, 128G eMMC _SMARC Module
- Powered by DC input, POE, or vehicle power
- Operating temperature range of -40 °C to +70 °C
- IP40, upgradeable to IP54/ IP65 with separate accessory boot





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# MedTech

***"ADLINK understood the complexity of medical compliance and still helped us move fast." – MedTech Joint Design Partner***

*Medical Computing*

# Ultrasound Scanner

A globally recognized medical brand in the ultrasound industry required ultrasound platforms ranging from portable units to advanced cardiac systems, all while staying cost-effective and meeting rigorous medical standards.
Through a long-term JDM partnership, ADLINK's DMS+ delivered over five customized models within three years. We enabled flexible feature expansion with a unique IMB form factor and supported GPU and FPGA integration to ensure seamless upgrades for future imaging technologies. Our deep domain expertise in various heavily regulated industries ensured we upheld compliance to medical-grade standards with ease and cost-efficiency. Additionally, our streamlined and agile engagement model greatly minimized development time while maintaining top-tier validation standards.
The result is a future-ready ultrasound product line built for extended longevity to evolve with the industry while balancing performance, adaptability, and cost.

14 gen
Intel CPU

longevity

IEC 60601
compliance

Signal
Processing

## Product Features

- SBC with 13th Gen Intel® Core™ i5/i3 processor
- Dual-channel DDR4 2666MHz memory up to 32GB
- Support three independent displays: 1xeDP, 2xUSB Type-C
- One GbE ports: 1GbE (Intel® I219-V)
- Windows 10/ 11 IoT Enterprise LTSC 21H2 (64-bit)
- TPM supported





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# Public Safety

***"Everything from complex hardware and software requirements to encryption and security was thoroughly handled with precision." – Public Safety ODM Partner ODM Partner***

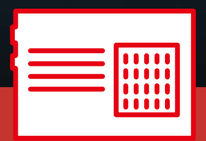
*Integrated Computing Board*

# AI-Enabled Biometric Enrollment

A security solutions provider needed a needed a high-performance ID enrolment system to capture and store biometric data securely. Their challenges included managing complex I/O requirements, supporting multiple displays and cameras, and ensuring secure, scalable data processing, all within a compact architecture.

Through ADLINK's DMS+ ODM service, we delivered an AI-enabled integrated motherboard based on Intel 12th Gen COM Express, paired with an AMD Xilinx Kria K26 to manage high-speed I/O. The system supports up to three displays and an biometric camera input while maintaining data encryption and secure storage architecture. From the BIOS to OS-level configurations, every layer was built with data integrity and compliance in mind to ensure trust, traceability, and robust protection for secure and efficient future authentication.

The result is a highly reliable ID enrolment system that integrates our robust hardware and software security measures with speed, accuracy, and security.





FPGA Integration Control



Secure Design



3 Independent Displays



Data Protection

## Product Features

- SBC with 13th Gen Intel® Core™ i5/i3 processor
- Dual-channel DDR4 2666MHz memory up to 32GB
- Support three independent displays: 1xeDP, 2xUSB Type-C
- One GbE ports: 1GbE (Intel® I219-V)
- Windows 10/ 11 IoT Enterprise LTSC 21H2 (64-bit)
- TPM supported





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# *Start your DMS+ journey with us.*

Tap into our Early Consulting Service to build smarter, faster, and easier. We're here to make sure your idea is set up for real-world success. Because right now, it's

***Just an idea..***
***Until we build it***




- **Swift Response** 2 Days
- **Fast Solutions** 7 Days
- **RFQ Turnaround** 14 Days





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