i.MX 95 Partners Ecosystem

E-Book Version

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Partners Ecosystem

NXP Platinum Partner

Green Hills Software

IAR

PHYTEC

Toradex Swiss. Embedded. Computing.

TQ

TRIA An Avnet Company

Variscite

NXP Gold Partner

ADLINK Technology Inc.

Advantech

Compulab

congatec

DIGI

Infochips An Arrow Company

ENGICAM

ezurio

FS Elektronik Systeme

Forlinx Embedded

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Karo electronics

MicroSys

Promate Solutions

Qiyang

Qt Group

QNX

SECO

SYSGO Embedding Innovations

TechNexion Innovators of Technology

VEST Embedded Solutions

VVDN Technologies

NXP Registered Partner

Geniatech

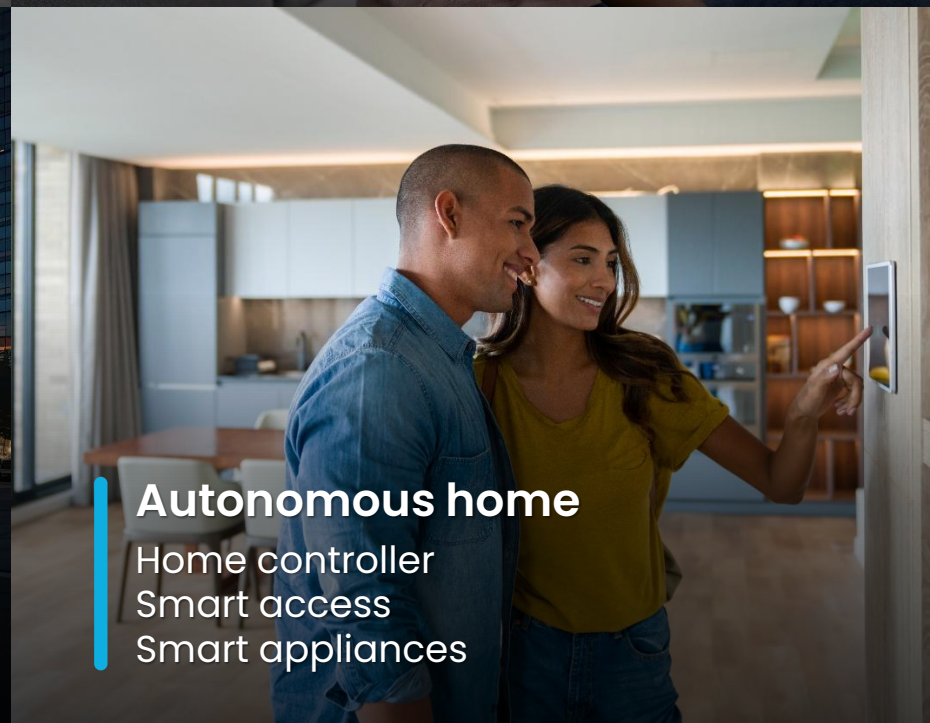
Vantron

Exciting technology and tools are emerging in key market segments

Factory automation
Real-time control
HMI
Robotics

Healthcare
Patient monitoring
Medical instruments
Personal health

Buildings & energy
Energy management
Green energy
Building control



Autonomous home
Home controller
Smart access
Smart appliances

Part Segments of NXP's i.MX 95 Applications Processors Family

Full Featured / Vision

i.MX 959

And 958 with Safety

- Automotive Infotainment
- Automotive Digital Cluster
- Industrial Machine Vision
- Industrial Video Surveillance
- Videoconferencing/ Entertainment
- Embedded Board Systems Modules

Graphical HMI

i.MX 955

And 954 with Safety

- Automotive Digital Cluster
- Industrial & Commercial HMI
- Commercial Media Applications
- Embedded Board Systems Modules

Compute

i.MX 953

- Automotive Telematics
- Industrial Transportation
- Industrial Networking
- Industrial Building Automation
- Industrial Networking
- Commercial Gateway

NXP i.MX 95 Family for Automotive Edge, Industrial, & IoT

Safety

Ditch the hypervisor and simplify building safety capable platforms with the first-generation on-die i.MX functional safety framework. Featuring NXP Safety Manager, Safety Documentation, & NXP Professional support to enable ISO26262 (ASIL-B) / IEC61508 (SIL-2) computing platforms, including 2D display pipeline.

Intuitive Decisions

Deliver increased accessibility and augment complex interfaces with Generative AI-enhanced voice command & control with the first i.MX applications processor to integrate the new, efficient NXP eIQ® Neutron neural processing unit.

Connect & Secure

Build secure, private applications with peace of mind based on the combined capabilities of integrated security and authentication acceleration, including post-quantum cryptographic capabilities, and lifecycle management.

Visualize & Act

Responsive HMI for IoT, Industrial, and Automotive applications are easily created with NXPs partner ecosystem, unlocked by a powerful modern 3D graphics processor combined with strong, efficient hexacore application processor performance.

Learn More:
NXP.com/iMX95

Connectivity Leadership:
UWB, Wi-Fi, NFC, RFID, & BT

Co-Developed Platforms:
PMIC, Wi-Fi, Sensors, & More

Deep Application Insights:
26,000 Customers & Growing

NXP i.MX 95 Family for Automotive Edge, Industrial, & IoT

i.MX 95
Applications
Processor Series

Delivers safe, secure, power-efficient edge computing. It combines powerful AI-accelerated vision processing and immersive graphics abilities with functional safety, advanced security, and high-performance connectivity.

Multicore Processing

- 6x Arm® Cortex-A55 multicore complex
- 1x Arm Cortex-M7
- 1x Arm Cortex-M33
- NXP eIQ® Neutron Neural Processing Unit

Graphics

- 3D GPU: OpenGL® ES 3.2, Vulkan® 1.2, OpenCL™ 3.0
- 2D GPU

Operating Systems

- Linux® OS
- Android™ OS
- FreeRTOS
- Zephyr
- Commercial OS support including Green Hills Software and QNX

Operating Systems

- 6x Arm® Cortex-A55 multicore complex
- 1x Arm Cortex-M7
- 1x Arm Cortex-M33
- NXP eIQ® Neutron Neural Processing Unit

Connectivity

- 1x10GbE + 2x Gb Ethernet w/TSN; AVB and IEEE 1588 for sync; EEE
- 1x USB 3.0 Type C with PHY + 1x USB 2.0 Type C with PHY
- 5x CAN FD
- 8x UART/USART/Profibus, 8x I²C, 8x SPI, 2x I3C
- 1x 8-ch, 12-bit ADC
- 2x 32-pin FlexIO interfaces (camera, bus or serial I/O)
- 2x PCIe Gen 3 1x lane

Memory

- On-Chip Memory
  - 1376kB SRAM (ECC)
- External Memory
  - Up to 6.4GT/s x32 LPDDR5/LPDDR4X (with Inline ECC & Inline Encryption)
  - 3x SD/ SDIO3.0/ eMMC5.1
  - 1x Octal SPI, including support for SPI NOR and SPI NAND memories

What’s Driving SoMs Growth

From industrial automation to connected healthcare, SoMs are the foundation for smarter, faster, and more sustainable embedded design,

The shift toward **modular, scalable design** is transforming how companies build the next generation of embedded devices.

Instead of starting from scratch, more developers are choosing **System-on-Modules (SoMs)** — pre-engineered boards that combine processing power, memory, and connectivity for faster, more reliable development.

Open architectures like **SMARC** (Smart Mobility ARChitecture) and **OSM** (Open Standard Module)make it easier to design once and scale across products.

Whether soldered or edge-connected, these form factors bring flexibility for everything from rugged industrial systems to multimedia applications.

Market momentum:

According to Maximize Market Research, the **Arm-based SoM market** is projected to grow from **$1.8B in 2024** to **$3.4B by 2030**, at a **12% CAGR** — proof that modular design is becoming the new standard. Once limited to low-volume prototypes, SoMs now power **deployments of over 250,000 devices**, showing their reliability at scale.

Key benefits:

- Faster time-to-market – Pre-validated boards accelerate product launches.
- Reduced risks and costs – Proven designs and certifications lower complexity.
- Scalable and future-ready – Standardized modules simplify upgrades.
- Ecosystem depth – Supported by NXP’s global partners for long-term success.

OSM

Solderable and ultra-low power, ideal for rugged environments and industrial applications. They support ARM, x86, and MCU32, with rich I/O and high scalability for edge computing and AI.




ADLINK · ADVANTECH · TRIA · Toradex

Size-0 › 15 × 30 mm
Size-S › 30 × 30 mm
Size-M › 30 × 45 mm
Size-L › 45 × 45 mm

To go directly to a partner's solution, click the board picture.

SMARC

Use connectors and support ARM and x86 with low power consumption. They offer flexible I/O and display options, making them great for multimedia, automation, and robotics.

Short › 82 × 50 mm

Full › 82 × 80 mm








ADLINK · ADVANTECH · congatec · DIGI · ENGICAM · ezurio · Elektronik Systeme · iWave Global









Geniatech · SECO · Toradex · TQ · TRIA · variscite · Vantron · VEST Embedded Solutions · VVDN TECHNOLOGIES

Proprietary

Modules are tailored by vendors for specific applications, offering optimized performance and unique features that meet specialized design needs.








Compulab · DIGI · ENGICAM · FORLINX · GATEWORKS · KARO electronics · MicroSys · PHYTEC







Qiyang · TechNexion · TechNexion · Toradex · Toradex · TQ · variscite

Time to market advantage with SoM (2-3 months)

1–2 weeks	2–3 weeks	1–2 weeks	3–4 weeks	2–3 weeks	2–3 weeks
1	2	3	4	5	6
HW Design	**Building first Carrier Board**	**Bring-up and Testing**	**Application Integration**	**Reliability and Compliance Testing**	**Finalization and Production Ramp**
Carrier board layout	Faster cycle, no high-speed memory or PMIC layout needed	Immediate SW bring-up with BSP + validated SoM design	Middleware, custom SW, and feature development	Only carrier + end system need certification; SoM pre-certified	Production RF testing, calibration, supply readiness

Overall Time-to-Market with SoM: 2–3 months (vs. 9 months chip-down)

Key differentiators for SoMs (vs Chip-down):

1. **No need for multiple PCB iterations**
2. **Faster SW bring-up with partner BSPs**
3. **Reduced compliance scope**
4. **Carrier board simplifies design, lowers risk.**

i.MX 95: Engineering the Future of Edge Intelligence

The i.MX 95 is more than a processor—it's a platform built to meet the evolving demands of industrial, automotive, and embedded applications. At its heart is a **6-core Arm® Cortex-A55** complex, optimized for Android and Linux, delivering robust performance for multitasking and rich user interfaces.

Safety is a cornerstone of the i.MX 95, featuring NXP's **first-generation safety architecture**. With an integrated safety domain and 2D display pipeline, it's designed for mission-critical environments and backed by the **SafeAssure™ software framework**, ensuring compliance and reliability.

i.MX 95: Engineering the Future of Edge Intelligence

For real-time responsiveness, the **Arm® Cortex-M7** CPU handles time-sensitive operations, while the **Neutron NPU**, part of NXP's **eIQ™ AI/MLtoolkit**, accelerates edge intelligence—enabling smart, efficient decision-making at the edge.

Graphics are immersive and fluid, powered by the **Arm® Mali™ G310GPU** and a dedicated 2D blitter. Whether it's a control dashboard or amultimedia interface, visuals are rendered with precision and speed. The i.MX 95 supports **ultrawide display configurations**, including **3840x1440@60P**, **4K30P via MIPI-DSI**, and dual **1080P30 LVDS**,enabling up to **three simultaneous displays**—ideal for advanced HMIsand cockpit systems.

Connectivity is future-proof with **1x 10GbE and 2x 1GbE**, all supporting **TimeSensitive Networking (TSN)** for synchronized, low-latencycommunication across industrial networks. Memory performance is cutting-edge, supporting **LPDDR5 up to6.4GT/s** and **LPDDR4X up to 4.2GT/s**, ensuring fast data access andefficient processing for demanding workloads.

Vision capabilities are unmatched, with a **500 MP/sec NXPISP** supporting **RGB-IR and BMP cameras**, and **multi-camera input** viadual **MIPI-CSI four-lane interfaces**, enabling up to **eight image sensors**—perfect for ADAS and industrial inspection systems. Security is deeply embedded, featuring the **EdgeLock® Secure Enclave(Advanced Profile)** and and additional **EdgeLock Accelerator** for **V2Xcommunications**, ensuring data integrity and trusted execution.

This platform offers high-speed I/O with **two PCIe Gen 3 x1 lanes** and **sixUSB 3.0 ports at 5Gbps**, allowing seamless integration with modernperipherals and expansion modules.

i.MX 95: Security You Can Trust

The i.MX 95 is built with security at its core. Its **EdgeLock® Secure Enclave** offers cryptographic services, key management, and runtime root of trust, with active protection like glitch detection and clock monitoring.

The SoC adds layers of defense with **Secure Boot**, **Authenticated Debug**, and **Distributed Security Management** across modules like TRDC, IEE, and Neutron.

Data stays protected with **DDR encryption**, **flash decryption**, **tamper detection**, and **V2X-ready EdgeLock Accelerator**—making the i.MX 95 a secure foundation for connected edge systems.

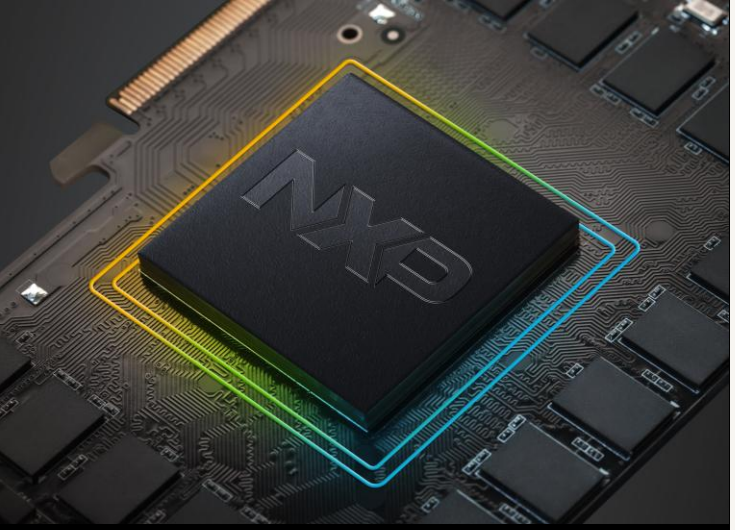
High-Performance Hardware for Edge AI

The **i.MX 95 processor** combines six Cortex-A55 CPUs, a Cortex-M33 for real-time control, and the Neutron NPU, delivering the performance needed for AI at the edge.

The eIQ® Neutron NPU is optimized for a wide range of neural networks like Convolutional Neural Networks (CNNs) and Generative AI models like vision Transformers, and Large Language Models (LLMs).

Benchmarks confirm its advantage: MobileNet models run up to 6.7× faster than on the i.MX 8M Plus, while ResNet and EfficientNet achieve 3–5× improvements. Real-time object detection with YOLO models also becomes practical on embedded devices.

Designed for power efficiency, the i.MX 95 enables AI workloads in **industrial automation, automotive, smart homes, and healthcare devices**—where real-time, on-device inference is critical.



Software that Unlocks Hardware Potential

What is eIQ?

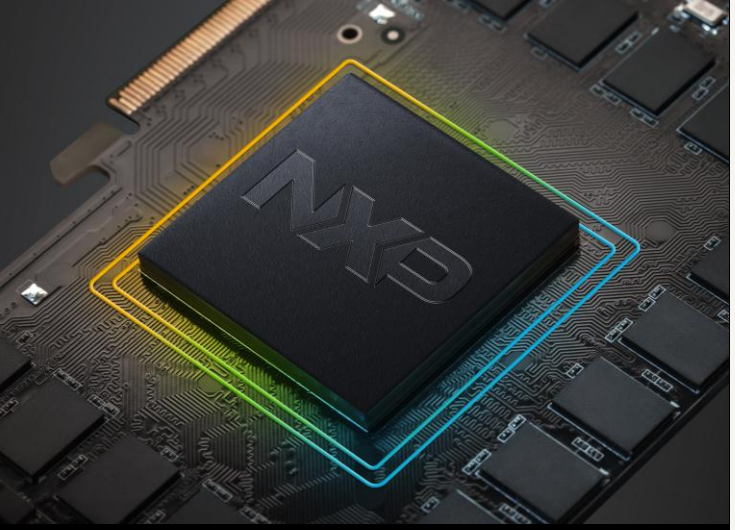
The **eIQ Toolkit** offers an end-to-end workflow for edge AI development:

Optimizer › quantizes, prunes, and fine-tunes models for deployment.

Evaluator › benchmarks models with per-layer insights on memory, performance, and power.

Time Series Studio (TSS) › AutoML for sensor-based intelligence (vibration, temperature, IMU, etc.), built for security with offline pipelines.

eIQ GenAI Flow › GenAi Flow brings practical usecases for leveraging LLMs and Generative Ai in edge deployments to support machine operators, and users.



Software that Unlocks Hardware Potential

What is eIQ?

NXP's eIQ® AI software development environment provides the tools, libraries, and runtimes that allow developers to train, optimize, and deploy machine learning models directly on NXP hardware—from small MCUs to high-performance processors like the i.MX 95.

Framework freedom is central to eIQ: TensorFlow Lite/LiteRT, ONNX Runtime with INT4/INT8 quantization, and PyTorch via ExecuTorch are all supported. The Neutron Execution Provider ensures models run directly on the NPU for maximum acceleration.

With eIQ GenAI Flow, generative AI at the edge is practical. Speech-first LLMs achieve <1 second time-to-first-token and over 10 tokens per second throughput.

Providing building blocks like event detection, speech recognition, and text to speech functionalities as well as model fine tuning with retrieval augmented generation (RAG) without modifyind the base model , but preventing hallucinations and giving the language models context in accuracy critical domains like industrial, automative and healthcare.

End-to-End Intelligence at the Edge

By combining the **scalable compute of i.MX 95** with the **comprehensive software enablement of eIQ AI SW**, NXP delivers a complete platform for AI at the edge.

The development flow is seamless:

1. Collect and label data.
2. Train and optimize with the eIQ Toolkit.
3. Deploy optimized models on the eIQ Neutron NPU.

This synergy enables powerful real-world solutions:

Industrial IoT › predictive maintenance from vibration and acoustic sensors.

Automotive › smarter driver monitoring and in-cabin assistants.

Smart Home › private voice control using RAG-enhanced commands.

Healthcare › real-time diagnostics in connected medical devices.

Hardware and software together reduce complexity, accelerate time-to-market, and enable a new generation of secure, efficient, and intelligent edge devices.

Advanced Vision Processing

In a world where machines need to see and think fast, advanced vision processing becomes essential. A high-speed 20-bit pipeline handles up to 500 megapixels per second, enabling sharp, real-time imaging. At the heart of this system is NXP's Image Signal Processor, capturing both RGB and infrared images to improve low-light performance and facial recognition.

Supporting up to eight cameras through dual MIPI-CSI interfaces, the platform is built for multi-angle vision. And with the NXP eIQ Neutron Neural Processing Unit, AI tasks are accelerated at the edge—making smart decisions instantly. All of this runs on a flexible, OS-agnostic software stack, ready for any embedded environment.

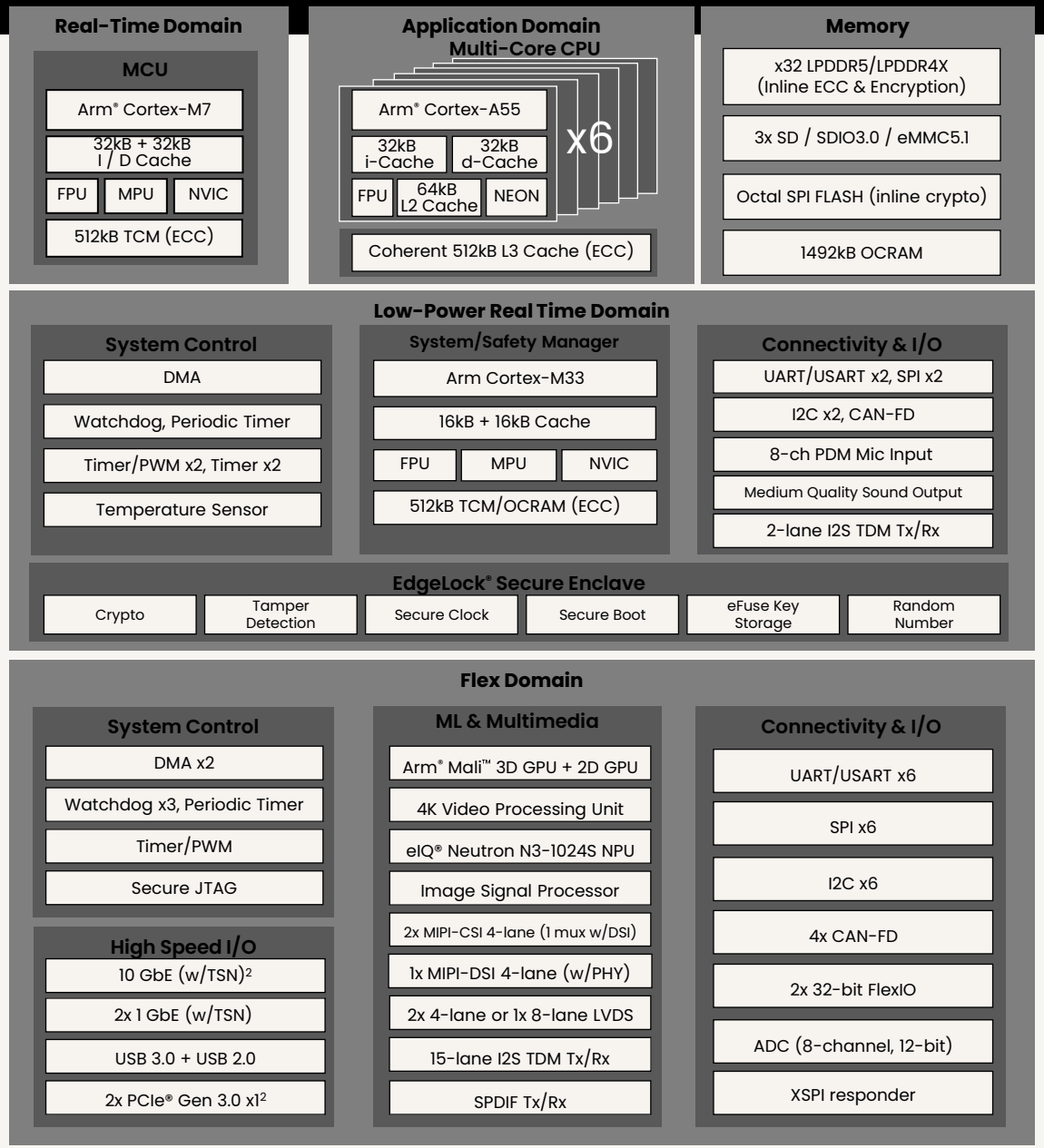
i.MX 95 Application Processor Block Diagram

At the heart of the **i.MX 95 Processor** lies a design built for the future of edge intelligence. Six Arm® Cortex-A55 cores deliver the muscle for advanced applications, while real-time domains—powered by Cortex-M7 and Cortex-M33—ensure safety-critical precision.

A dedicated Neutron NPU brings AI to life, enabling up to 8 TOPS of efficient machine learning. Immersive graphics flow through the Mali™ G310 GPU and 2D blitter, while 4K video support and multi-camera inputs unlock cutting-edge vision systems.

Security is never an afterthought—the EdgeLock® Secure Enclave and advanced cryptography ensure trusted performance across industrial, automotive, and medical markets. Combined with robust connectivity options—10GbE, PCIe Gen 3, USB 3.0, and beyond—the i.MX 95 transforms complex designs into scalable, reliable, and secure solutions.

This isn't just a block diagram. It's a blueprint for building the next generation of intelligent, connected devices.



01

Software

Platinum and Gold Partners

Platinum Partner

Green Hills SOFTWARE

Advanced software development tools, safety and security-certified software products, and expert services have enabled electronics manufacturers to efficiently develop and confidently deploy purpose-built embedded software that performs critical functions in vehicles, avionics, medical devices, industrial applications, IoT, storage devices, phones and more.

Solutions

- INTEGRITY® and INTEGRITY-178 real-time operating system for application cores
- INTEGRITY Multivisor™ virtualization extension to INTEGRITY to run multiple guest OSes such as Linux or Android alongside critical tasks
- µ-velOSity® real-time operating system for microcontroller/ real-time cores
- MULTI® Integrated Development Environment for OS-agnostic heterogeneous multicore debugging, with TimeMachine™ back-in-time debugging and system History viewer
- Optimizing C/C++/Ada compilers
- Green Hills JTAG/Trace Probe
- Expert design and training services

Key features

- Production-focused, safety-certified RTOSes, tools and hypervisors
- Advanced debugger and visualization tools that reduce development time
- Embedded experts offer services for software design, certifications and developer processes

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Key Capabilities Enabled on i.MX95 Application Processor

Quickly find and fix bugs quickly with advanced debugger and system viewer

Utilize all peripherals through RTOS board support package including GPU, NPU, ISP, and more...

AI/ML Enablement

The INTEGRITY RTOS board support package (BSP) supports the NPU.

Market segements

- Industrial automation
- Automotive
- Smart building
- Medical / Health care
- AI Vision

Developer Tools & Resources

- SDK
- BSPs
- Documentation
- Integration guides and
- Expert technical support
- Training in all global regions

Platinum Partner

IAR provides software and services for embedded development, enabling organizations to deliver secure, high-quality products for the future. Since its founding 1983, IAR have played a key role in ensuring quality, security, reliability, and efficiency in the development of more than one million embedded applications across all industries.

Solution

IAR Embedded Workbench

Complete development toolchain with an optimized compiler, debugger, and analysis tools, streamlining embedded software development across various microcontrollers and processor architectures for performance and reliability.

Key features

- Zephyr RTOS build and debug support.
- Multi-core debugging and software emulation.
- Containerization.
- Pre-certified toolchain safety certification and support removing the need for toolchain qualification and FS maintenance.

Platinum Partner

IAR provides software and services for embedded development, enabling organizations to deliver secure, high-quality products for the future. Since its founding 1983, IAR have played a key role in ensuring quality, security, reliability, and efficiency in the development of more than one million embedded applications across all industries.

Key Capabilities Enabled on i.MX95 Application Processor

IAR's integrated toolchain enhances code quality with static and runtime analysis, boosts performance through safety certified static analysis and compiler toolchain, and streamlines CI/CD automation with native integration into Jenkins, GitLab, and GitHub.

AI/ML Enablement

IAR supported in eIQ time series studio with integration.

Market segements

- Industrial
- Automotive
- Medical
- Robotics
- Smart home / Consumer

Developer Tools & Resources

- Integration guides and APIs
- Technical support
- Functional safety toolchain services

Qt Group

Qt Group offers cross-platform solutions for the entire software development lifecycle and has a community of over 1.5 million developers and customers in over 180 countries. We help our customers through the entire product development lifecycle - from UI design and software development to quality management and deployment.

Solution

Boot to QT

Designed for great customization possibilities. It contains only components required in the embedded device, resulting in smaller image sizes while keeping valuable development tools available.

Key Capabilities Enabled on i.MX95 Application Processor

- Boot to Qt is a light-weight, Qt-optimized full software stack for embedded Linux systems that is installed into the actual target device.
- The Boot to Qt Software Stack uses the traditional embedded Linux kernel built with Poky, the reference distribution of Yocto Project.
- Boot to Qt Software Stack is designed for great customization possibilities. It contains only components required in the embedded device, resulting in smaller image sizes while keeping valuable development tools available.

NXP Gold Partner

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- Technical support
- Functional safety toolchain services

NXP Gold Partner

QNX

QNX leads the way in delivering safe and secure operating systems, hypervisors, middleware, solutions, and development tools, along with support and services delivered by trusted embedded software experts. QNX® technology has been deployed in the world's most critical embedded systems, including more than 255 million vehicles.

Solution

Leverage the i.MX9 series for mission critical automotive applications with the QNX RTOS for Safety.

i.MX 95 SoC and QNX OS for Safety together provides the foundation for mission critical automotive solutions, including vision processing, driver monitoring and blind spot. QNX features a rich set of POSIX PSE 54 APIs with ISO 26262 ASIL D for safety while the i.MX 95 family is designed to enable ISO 26262 ASIL-B, ensuring safety-essential actions in a vehicle. The QNX Hypervisor supports digital cluster and Infotainment applications allowing both safe and non-safety based applications to coexist.

Key Capabilities Enabled on i.MX95 Application Processor

- RTOS
- Security layers (e.g. ARM Trustzone, ARM's TEE)

NXP Gold Partner

QNX

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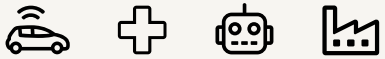
Market segements



- Automotive
- Medical
- Robotics
- Industrial

Developer Tools & Resources

Start your QNX Journey with NXP i.MX95: Hobbyists, students, and professionals can kickstart their QNX journey using the i.MX95 Evaluation Board for non-commercial projects. Its high-performance real-time design enables smooth gaming, 3D rendering, graphics, and AI apps. Learn more about the QNX Everywhere program.

Virtual Factory Robotics Demo Powered by QNX and i.MX95: The i.MX95's heterogeneous multicore design enables safety-critical control, 3D rendering, and cloud analytics to run in parallel on QNX, combining real-time performance with low power use. The graphics-rich demo showcases real-time mixed reality, while the safety architecture of i.MX95 and QNX OS/Hypervisor supports industrial automation solutions.

NXP Gold Partner

SYSGO EMBEDDING INNOVATIONS

SYSGO has delivered operating systems and services for embedded systems since 1991 and pioneered Linux in the embedded market with ELinOS. For safety-critical applications, it offers PikeOS, the world's first SIL A-certified OS for multicore processors, enabling intelligent IoT devices for functional safety and IT security across aerospace, automotive, industrial, rail, and medical sectors.

Solutions

- ELinOS Embedded Linux: has been designed to allow developers to save time and effort on the application.
- PikeOS for MPU: provides a safe and secure execution environment for medium-sized hardware platforms that do not provide a Memory Management Unit.
- PikeOS RTOS and Hypervisor: real-time operating system including a hypervisor-based separation kernel designed for mixed criticality applications and certified to the highest levels of Safety & Security.

Developer Tools & Resources

Key features

- Real-time OS with hypervisor
- Highest safety & security certifications
- Mixed-criticality support
- Scalable across NXP architecture

Market segements

- Avionic, Space, Defense, Automotive, Industry, Railway

02

Hardware

Platinum and Gold Partners

NXP Gold Partner

ADLINK LEADING EDGE COMPUTING

Global leader in edge computing, delivering AI-powered solutions that connect people, places, and things. With a strong portfolio of rugged hardware and real-time data tools, ADLINK supports industries like automation, healthcare, aerospace, and transportation across 40+ countries.

OSM-IMX95

Compact and rugged, the OSM-IMX95 is AI-ready and built for industrial edge—delivering high-speed connectivity and long-term reliability.

- OSM L - Size (45 x 45 mm)
- Operating System: Yocto Linux BSP, Android (by project)

Key features

- Heterogeneous processing: 6x Cortex-A55, Cortex-M7, and Cortex-M33
- Triple-display support with 4K video decode and 64 GFLOPS GPU
- Integrated NPU (up to 2 TOPS) and dual MIPI-CSI for AI + vision
- Onboard Wi-Fi 6/6E + Bluetooth 5.4, dual GbE, and PCIe Gen 3

Market segments

- Industrial Automation
- Smart Building
- Medical / Health Care
- AI Vision

NXP Gold Partner

ADLINK LEADING EDGE COMPUTING

Global leader in edge computing, delivering AI-powered solutions that connect people, places, and things. With a strong portfolio of rugged hardware and real-time data tools, ADLINK supports industries like automation, healthcare, aerospace, and transportation across 40+ countries.

LEC-IMX95

Vision-capable and AI-ready, the LEC-IMX95 powers industrial edge applications with advanced graphics, dual GbE TSN, and integrated NPU.

- SMARC (82 x 50 mm)
- Operating System: Yocto Linux BSP, Android

Key features

- Integrated eIQ Neutron NPU
- ISP and VPU
- Arm Mali G310
- 3D Graphics
- LVDS, DSI
- HDMI
- 2x GbE ports
- 1x 10Gb

Market segments

- Industrial Automation
- Retail and Hospitality
- Medical
- Healthcare
- AI and Vision

Gold Partner

ADVANTECH

Global leader in IoT and embedded platforms, driving industrial intelligence through its Edge Intelligence WISE-PaaS solutions. By co-creating ecosystems with partners, Advantech helps connect industrial chains and accelerate digital transformation

AOM-2521

Deliver scalable edge AI and multimedia capabilities. It's tailored for industrial automation, machine vision, and real-time control in compact embedded systems.

- OSM L 45 X 45 MM
- Operating System: Yocto Linux

Key features

- 2 TOPS NPU, Mali-G310 GPU, ISP, 4K video encode/decode
- 8GB LPDDR5 (6400MT/s), eMMC 5.1 storage
- 10GbE + 2x GbE with TSN, 2x PCIe Gen 3, USB 3.2/2.0
- Dual LVDS, MIPI DSI, MIPI CSI-2
- 5x UART, 4x I2C, 2x CAN-FD, 16x GPIO, 3x PWM
- Industrial-grade reliability and safety (ASIL-B/SIL-2)

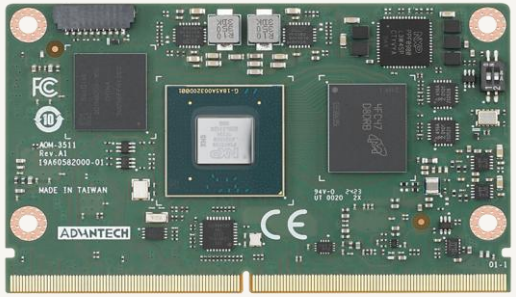
Market segments

- Industrial Automation
- Machine Vision
- Medical Systems
- IoT Gateways
- Smart HMI and Control Systems

NXP Gold Partner

ADVANTECH

Global leader in IoT and embedded platforms, driving industrial intelligence through its Edge Intelligence WISE-PaaS solutions. By co-creating ecosystems with partners, Advantech helps connect industrial chains and accelerate digital transformation



AOM-5521

Delivers high-performance processing, robust security, and advanced multimedia capabilities in a compact, power-sufficient module.

- SMARC 82 X 50 MM
- Operating System: Yocto Linux

Key features

- 2 TOPS NPU, Mali-G310 GPU, ISP, 4K video encode/decode
- 8GB LPDDR5 (6400MT/s), eMMC 5.1 storage
- 10GbE + 2x GbE with TSN, 2x PCIe Gen 3, USB 3.2/2.0
- Dual chan. LVDS, MIPI DSI, 1x 4-lane MIPI CSI-2
- 4x UART, 5x I2C, 2x CAN-FD, 14x GPIO
- Industrial-grade reliability and safety (ASIL-B/SIL-2)

Market segments

- Medical Systems
- Industrial Automation
- Machine Vision
- IoT Gateways
- Smart HMI and Control Systems

Compulab

Compulab is a leading developer and manufacturer of System-on-Modules, Computer-on-Modules, IoT Gateways and fanless Industrial Computers. Our products are used in medical devices, transportation, industrial automation, telecommunication, aerospace and marine systems and countless other applications.

UCM-iMX95

Compact System-on-Module with up to 6x Cortex-A55 cores, Cortex-M7 MCU, and AI acceleration. It supports 4K graphics, advanced connectivity, and is ideal for industrial, IoT, and edge AI applications.

- Proprietary (28 x 40 mm)
- Operating System: Yocto BSP, Debian Linux

Key features

- ARM Cortex-A55 6x CPU cores
- 2.0GHz
- Up to 16GB LPDDR5
- 128GB eMMC
- GbE + RGMII + 10GbE, 2x PCIe USB3.0 + USB2.0
- 2x LVDS, MIPI-DSI
- 2x MIPI-CSI
- Certified 802.11ax WiFi and BT 5.3

Market segments

- Defense
- Aerospace
- Energy and Utilities
- Medical Healthcare
- Smart Buildings

NXP Gold Partner

Compulab

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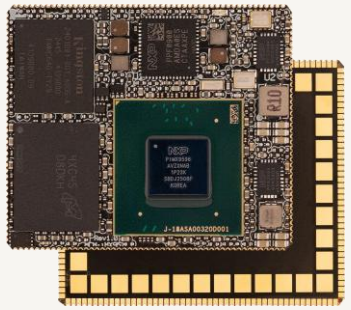

MCM-iMX95

Low-profile, solderable System-on-Module with up to 6x Cortex-A55 cores, Cortex-M7/M33 MCUs, and AI acceleration. It supports 4K graphics, robust I/O, and industrial-grade reliability—ideal for HMI, IoT gateways, and medical devices.

- Proprietary (34 x 42 mm)
- Operating System: Yocto BSP, Debian Linux

Key features

- 16GB LPDDR5 and 128GB eMMC
- 2x RGMII
- 2x PCIe, USB3.0
- 5x CAN, 8x UART, 8x SPI
- Solderable as a regular QFN component

Market segments

- Industrial Automation
- Smart Buildings
- Medical / Healthcare
- Transportation and Mobility

NXP Gold Partner

congatec

Leading global provider of high-performance hardware and software building blocks for embedded and edge computing solutions based on Computer-on-Modules (COMs). congatec's application-ready approach combines COMs with services and customizable technologies for cutting-edge advancements in system consolidation, IoT, security, and AI.

conga-SMX95

Deliver high-performance edge computing with the conga-SMX95, a SMARC 2.2 module featuring multicore processing, AI acceleration, advanced security, and low power consumption—ideal for demanding embedded applications in industrial, medical, transportation, and robotics.

- SMARC 82 mm x 50 mm
- Operating System: Linux, Yocto, Android

Key features

- Multicore processing for efficient edge computing
- NPU accelerated AI for vision and ML tasks
- Ultra low power operation
- Built-in security for mission critical applications
- Rich connectivity including wireless options and TSN support

Market segments

- Industrial Automation
- Transportation and Mobility
- Medical / Health Care
- AI Vision
- Autonomous Mobile Robots

NXP Gold Partner

Digi International, based in Hopkins, Minnesota with global locations, is a leader in IoT and embedded solutions. Our ConnectCore® SOMs with Digi Embedded Yocto, TrustFence® security, OTA, and cloud integration help developers build, deploy and manage secure, scalable connected devices.

ConnectCore 95

High-performance, secure SOM built on NXP i.MX95 with pre-certified Wi-Fi and Bluetooth, AI/ML acceleration, and industrial performance with industry-leading 3-year warranty. With TrustFence® security and IoT-ready cloud services included: OTA, security, fleet mgmt.

- Proprietary (40 x 45 mm)
- Operating System: Yocto Project (Digi Embedded Yocto)

Key features

- Up to 16 GB RAM/128GB Flash
- Integrated NXP PMIC
- Pre-certified NXP Tri-Radio: Wi-Fi 6 + Bluetooth 5 (802.15.4 ready)
- Ethernet 2 x Gb/TSN (10GbE ready)
- Compatible with ConnectCore 91/93
- All i.MX 95 signals available
- Built-in IoT-ready platform with integrated compute, connectivity, security, and cloud tools.

Market segments

- Industrial Automation
- Medical Healthcare
- Energy / Utilities
- AI and Vision

NXP Gold Partner

Digi International, based in Hopkins, Minnesota with global locations, is a leader in IoT and embedded solutions. Our ConnectCore® SOMs with Digi Embedded Yocto, TrustFence® security, OTA, and cloud integration help developers build, deploy and manage secure, scalable connected devices.

ConnectCore 95 SMARC

Delivers high-performance and secure computing on NXP i.MX95 with pre-certified Wi-Fi/Bluetooth, AI/ML acceleration, and industrial-grade reliability. Includes TrustFence® security plus IoT-ready cloud services: OTA, security, and fleet mgmt.

- SMARC (82 x 50 mm)
- Operating System: Yocto Project (Digi Embedded Yocto)

Key features

- Up to 16 GB RAM/128GB Flash
- Integrated NXP PMIC
- Pre-certified NXP Tri-Radio: Wi-Fi 6 + Blueetooth 5 + 802.15.4
- Ethernet 2 x Gb/TSN (10GbE ready)
- Built-in IoT-ready platform with integrated compute, connectivity, security, and cloud tools.

Market segments

- Industrial Automation
- Medical Healthcare
- Energy / Utilities
- AI and Vision

NXP Gold Partner

eInfochips, an Arrow company, is a global leader in product engineering and semiconductor design services. We bring 30+ years of engineering experience across the product stack and accelerate time-to-market through off-the-shelf evaluation kits, and complete custom design services.

EIC-i.MX95-210

Designed for machine learning, industrial automation, automotive, and edge AI applications

- Evaluation Kit (55 x 29 mm)
- Linux Yocto Scarthgap 5.0

Key features

- NXP eIQ® Neutron Neural Processing Unit
- 16GByte LPDDR5 RAM, 64GByte eMMC 5.1 storage
- 10 Gigabit Ethernet, PCIe Gen 3, USB3.0
- Dual Channel LVDS (Up to 1080p60)
- 1x 4-lane MIPI DSI and CSI-2
- For AI workloads, the kit offers a dedicated NPU supporting 8-bit and 16-bit operations.

Market segments

- Industrial Automation
- Medical Healthcare
- Robotics
- Energy / Utilities
- AI and Vision

NXP Gold Partner

ENGICAM

Engicam is a rapidly growing technology company focusing on embedded computing products and services. We design, develop, and manufacture high-performance System on Modules and Computer on Modules, Carrier boards and HMI. Our products are used in medical devices, transportation, industrial automation, telecommunication, aerospace and marine systems and countless other applications.

SmarCore MX95

Designed for advanced edge applications in automotive, industrial automation, and IoT. It combines high-performance processing, AI acceleration, and multimedia capabilities in a rugged, scalable form factor.

- SMARC 82 X 50 MM
- Operating System: Linux, Yocto

Key features

- 6x Cortex-A55, Cortex-M7, Cortex-M33
- 2.0 TOPS NPU, Mali-G310 GPU, 4Kp60 encode/decode,
- Up to 16GB LPDDR5, starting from 4GB eMMC
- Dual GbE + 10GbE (SGMII), 2x PCIe, USB 2.0/3.0
- LVDS, MIPI DSI, MIPI CSI
- I2S, SAI, UART, SPI, I2C, CAN, GPIO
- Security: TPM, secure boot
- Industrial temp range (-40°C to +85°C)

Market segments

- Automotive Connectivity
- Industrial
- IoT Platforms
- Edge AI and Multimedia
- Smart Infrastructure

NXP Gold Partner

ENGICAM

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i.Core MX95

High-performance EDIMM 2.0 System-on-Module tailored for edge AI, industrial automation, and automotive connectivity. It integrates advanced graphics, machine learning, and real-time processing in a compact and scalable form factor.

- Proprietary: 67.6 x 32 mm (EDIMM 2.0)
- Operating System: Linux, Android

Key features

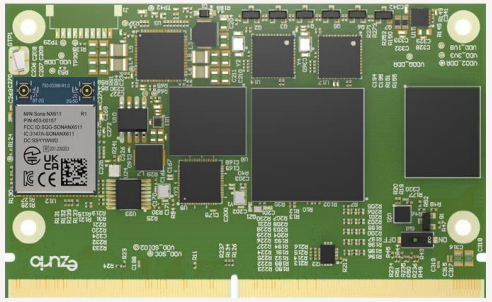
- 2.0 TOPS NPU, Mali-G310 GPU, 4Kp30 video encode/decode
- Up to 16GB LPDDR5, starting from 4GB eMMC
- Dual GbE, USB 2.0/3.0, PCIe, CAN, UART, SPI, I2C
- Display: LVDS, MIPI DSI; Camera: MIPI CSI-2
- Audio: I2S, SAI;

Market segments

- Automotive Connectivity
- Industrial Automation
- IoT Platforms
- Edge AI and Multimedia
- Smart Infrastructure

NXP Gold Partner

Ezurio, Your Connectivity Expert, specializing in certified wireless modules, system-on-modules (SOMs), single-board computers, and end-to-end IoT solutions. Operating across multiple global locations. Supports industries such as medical, industrial, and commercial with innovative hardware and software technologies.



Nitrogen95 SMARC

Compact, AI-ready, and built for industrial edge. Powered by NXP i.MX 95 with LPDDR5, PCIe Gen 4, and dual GbE—delivering high-speed connectivity, advanced security, and long-term reliability in a SMARC 2.1 form factor.

- SMARC 82 X 50 MM
- Operating System: Yocto Linux, Buildroot Linux, Android, Debian, or QNX for the Cortex-A55s, FreeRTOS for the Cortex-M7, and NXP System Manager for Cortex-M33. Optional Summit Suite Vulnerability Monitoring and Remediation ensures your Yocto and Buildroot SBOMs stay up to date with the latest security fixes.

Key features

- Powerful Heterogeneous processing: 6x Cortex-A55, Cortex-M7, and Cortex-M33
- Triple-display support with 4K video decode and 64 GFLOPS GPU
- Integrated NPU (up to 2 TOPS) and dual MIPI-CSI for AI + vision
- Onboard and pre-certified Wi-Fi 6/6E + Bluetooth 5.4
- Evaluation kit to jumpstart your prototyping: 7” display, 8.3MP camera, carrier board, and onboard Wi-Fi 6 module.
- In-house USA based assembly

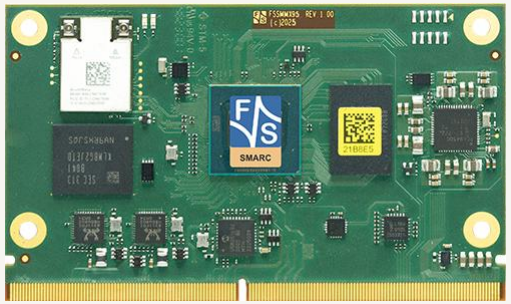
Market segments

- Industrial Automation
- Smart Building
- Medical / Health Care
- AI Vision

NXP Gold Partner

Elektronik Systeme

Germany-based embedded solutions provider specializing in system-on-modules (SoMs), single-board computers, and custom electronics. With over 30 years of experience, F&S delivers long-term available, high-quality products for industrial and medical applications.



SMARC95

Efficient, scalable,and development-friendly. Features a 5V power supply, 3.3V I/O, and standardized interfaces. Includes F&S's cooling solution, free schematic review, and comprehensive software support—ideal for fast, reliable embedded development.

- SMARC 82 X 50 mm
- Operating System: Linux, Debian, Zephyr, QNX

Key features

- Heterogeneous processing: 6x Cortex-A55, Cortex-M7, and Cortex-M33
- Triple-display support (MIPI-DSI/LVDS and DisplayPort) with 4K video decode and 64 GFLOPS GPU
- Integrated NPU (up to 2 TOPS) and dual MIPI-CSI for AI + vision
- Onboard Wi-Fi 6/6E + Bluetooth 5.4, dual GbE, and PCIe Gen 3
- Secure Element

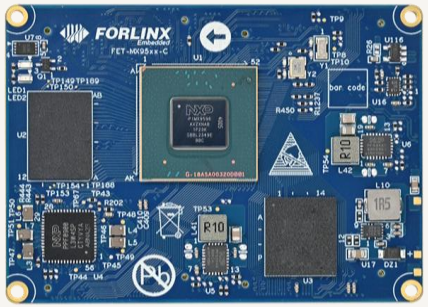
Market segments

- Industrial Automation
- Transportation and Mobility
- Medical and Health Care
- AI Vision
- Robotics and Smart Energy

NXP Gold Partner

FORLINX Embedded

Forlinx designs and manufactures ARM-based embedded solutions including SOMs, SBCs, and industrial PCs. With 10,000+ customers in 70+ countries, it offers long-life products and one-stop customization services—covering BSPs, hardware, and mechanical design—for industries like IoT, automation, automotive, smart cities, and healthcare.



FET-MX9596-C

High-performance, industrial-grade System-on-Module designed for edge AI, smart cockpit systems, and Industry 4.0. Built on NXP's i.MX 95 processor, it combines powerful compute, multimedia, and connectivity features with long-term reliability.

- Proprietary: 50 mm x 68 mm
- Operating System: Linux

Key features

- 6x Cortex-A55, Cortex-M7, Cortex-M33
- 2 TOPS NPU, Mali-G310 GPU, ISP, 4K video encode/decode
- 8GB LPDDR4x RAM, 64GB eMMC
- 10GbE + 2x GbE, 5x CAN-FD, 2x PCIe Gen3, USB 3.0/2.0
- Dual MIPI CSI-2, MIPI DSI, LVDS, HDMI
- Industrial temp range (-40°C to +85°C)
- EdgeLock security

Market segments

- Edge AI and Vision
- Industrial Automation
- IoT Platforms
- Medical and Environmental Monitoring

NXP Gold Partner

GATEWORKS

Gateworks designs and manufactures industrial single board computers (SBCs) and wireless solutions in California, USA. Gateworks products are built on NXP® Semiconductors Arm®-based processors and trusted by global leaders in industrial automation, robotics, transportation and energy systems.

CATALINA

Gateworks' Catalina family of Industrial SBCs are enhanced for wireless flexibility, security and high-performance, AI-driven edge applications.

- Proprietary
- Operating System: Linux Ubuntu Board Support Package, OpenWRT, Yocto, Buildroot Optional

Key features

- NXP™ EdgeLock® SE052F: FIPS 140-3 Certification
- NXP™ eIQ® Neutron Neural Processing Unit
- DDR5 DRAM up to 16GB
- eMMC Flash up to 64GB
- 10 GbE & up to 5x GbE
- Industrial Operating Temp (-40°C to+85°C)
- Up to 4x M.2 or Mini PCIe FSA sockets with USB 3.0, PCIe, I2C, SDIO, SPI, UART and PCM Signals for Wireless Expansion
- Dual Isolated CAN Bus Ports
- CE-ready and has been designed to pass surge, burst and ESD requirements for CE industrial products.
- TPM 2.0 Security Element

Market segments

- Industrial Automation
- Energy Utilities
- Robotics
- Transportation and Mobility

NXP Registered Partner

Geniatech

Embedded ARM solutions provider offering end-to-end software, hardware, and manufacturing services. At its core, robust embedded ARM BSP development, hardware design and customization, and scalable manufacturing capabilities. The portfolio spans a full range of ARM-based products such as SoMs, SBCs, Box PCs, AI modules, HMIs, and gateways, supported by long-term BSP maintenance.

SOM-iMX95-SMARC

Integrates advanced multicore processing, dedicated real-time control

- SMARC 2.1 (82 x 50 mm)
- Linux

Key features

- NXP eIQ® Neutron Neural Processing Unit
- Dual real-time cores: Cortex-M7 (800 MHz) and Cortex-M33
- Delivers exceptional AI performance, scalability, and flexibility
- Designed for demanding edge applications, from industrial automation to advanced robotics.

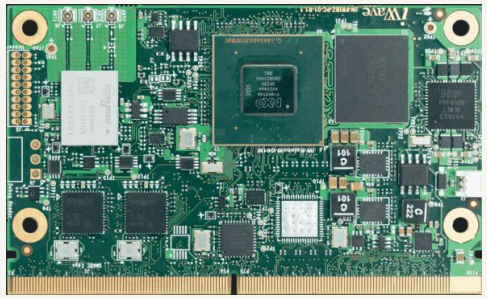
Market segments

- Industrial Automation
- Medical Healthcare
- Robotics
- AI and Vision

NXP Gold Partner

iWave Global

iWave delivers embedded solutions for industrial, medical, automotive, and IoT applications. With 25+ years of experience, it offers SOMs, SBCs, and ODM products like telematics units, HMI systems, and aerospace-grade solutions. iWave supports secure, long-life designs with custom hardware/software services and Linux/Android BSPs.



i.MX 95 SMARC

Built for high-performance edge applications, combining AI/ML acceleration, multimedia capabilities, and industrial-grade reliability. It's designed for scalable deployment across automotive, industrial, and HMI systems.

- SMARC: 82 x 50 mm
- Operating System: Linux, Android, Ubuntu BSP

Key features

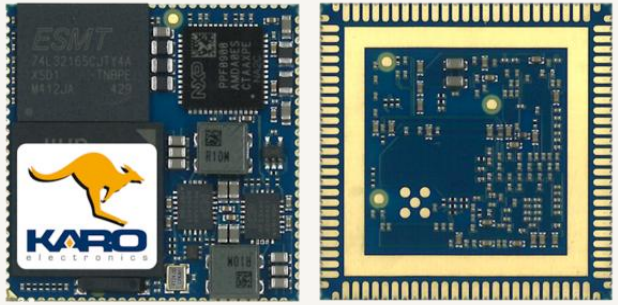
- NPU with up to 2.0 TOPS Neural Network performance
- Up to 16GB LPDDR5
- 16GB eMMC Flash (Expandable) and 16Mb QSPI Flash
- Wi-Fi 6 and Bluetooth 5.3 Connectivity

Market segments

- Industrial Automation
- Automotive and Telematics
- Smart Infrastructure
- Advanced HMI Systems
- Edge AI and Vision

NXP Gold Partner

Offers pin-compatible COMs for easy integration and long-term availability. Its QS modules—just 27mm square—are the smallest for i.MX 8, built in Germany with ISO-certified quality. Ka-Ro provides Linux BSPs, custom hardware/software services, and proven reliability for industrial applications.



QS95

Solder-down System-on-Module designed for space-constrained and industrial-grade applications. Built around NXP's i.MX 95 processor, it combines high performance, low power, and long-term availability in a compact QFN-style form factor.

- Proprietary: 29 X 29 mm
- Operating System: BSP Linux

Key features

- Up to 6x Cortex-A55 cores + Cortex-M7 + Cortex-M33
- Integrated NPU (2.3 TOPS), GPU, ISP, 4K video support
- LPDDR5 memory, eMMC storage
- Ethernet, USB, CAN, UART, SPI, I2C, SDIO
- Display: MIPI DSI, LVDS, HDMI
- Camera: Dual MIPI CSI-2
- Security: Secure boot, TPM 2.0, EdgeLock
- Industrial temperature range (-40°C to +85°C)

Market segments

- Industrial Automation
- Smart Infrastructure
- Medical Devices
- Transportation

NXP Gold Partner

MicroSys designs custom embedded systems in Germany for over 30 years. We offer fanless, compact solutions for harsh environments with long-term availability. As NXP® Gold Partner, we offer System-on-Modules and integrated solutions based on their latest and legacy processors – from Arm® Cortex®, S32G, S32Z, i.MX to PowerPC Architecture®.

miriac® MPX-i.MX95 and SBC-i.MX95

The miriac® SBC-i.MX95 combines the high-performance miriac® MPX-i.MX95 SoM with the versatile miriac® CRX-i.MX95 carrier board, creating a scalable SBC platform based on the i.MX 95 for demanding edge applications with AI acceleration, real-time control, and functional safety.

- Proprietary: (82 x 35 mm)
- Operating System: BSP Linux

Key features

- 6x Arm® Cortex®-A55 + Cortex®-M33 cores
- 16 GB DDR5
- M.2 Key M/B slots
- 3 adapter card options (one at a time):
  1) SJA1110 Ethernet Switch with TSN up to 1000BASE-T1
  2) 10GBASE-T via RJ45
  3) SFP+ 10G connectors
- Built for industrial and automotive reliability
- Long-term availability of up to 15 years

Market segments

- Industrial Automation
- Medical and Healthcare
- AI and Vision
- Robotics

PHYTEC

PHYTEC delivers embedded solutions including SOMs, SBCs, and imaging systems for industrial and IoT applications. With over 30 years of experience and a strong alliance with NXP, PHYTEC helps customers accelerate development, reduce costs, and minimize design risks across industries like automation, energy, medical, and transportation.

phyFLEX®-i.MX 95 FPSC

Accelerate edge AI with the phyFLEX-i.MX 95, a solderable, industrial-grade module based on FPSC with built-in vision, security, and connectivity features for robotics, automation, and smart systems.

- Proprietary 45 mm x 48 mm
- Operating System: Linux, Yocto Project

Key features

- FPSC Embedded Standard provides high level of scalability and maximum flexibility in embedded design
- Solderable design for rugged, space-constrained applications
- AI/ML acceleration with integrated NPU
- Camera interfaces for embedded vision use cases
- Secure connectivity with industrial-grade interfaces
- Long-term availability and industrial temperature support

Market segments

- Industrial Automation
- Robotics and Vision Systems
- Medical and Healthcare Devices
- Transportation and Mobility

NXP Gold Partner

PROMATE™ SOLUTIONS

Founded in 2013, is a Taiwan-based solutions provider, serving fitness, medical, industrial, and smart retail sectors, the company offers end-to-end services from design to manufacturing, including touch display, embedded system, and mechanical integration.

ProSOM-N95

Delivers high-performance processing, advanced security, and flexible I/O for industrial, medical, and smart retail applications.

- Proprietary: 85.85mm x 89.69mm
- Operating System: Yocto Project, Linux, Android

Key features

- Integrated AI/ML acceleration
- Flexibility and scalability
- Enhanced security features
- Long-term industrial support

Market segments

- Retail and Hospitality
- Robotics
- Industrial Automation
- Medical
- Healthcare

Qiyang TECHNOLOGY

Established in 2007, located in Hangzhou, Zhejiang Province, Zhejiang Qiyang Intelligent Technology Co., Ltd is a national high-tech enterprise that focuses on designing ARM embedded hardware, software tools, and customizable product.

IAC-IMX91-CM SOM

IAC-IMX91-CM SOM is designed based on NXP i.MX91x processor. The processor adopts the Cortex-A55 architecture with a main frequency of 1.4GHz. It supports common interfaces such as 8-ch UART, 2 gigabit Ethernet, 2 USB 2.0, and 2 CAN-FD. It is compact in size and easy to be embedded in products.

- Proprietary 49 x 35 mm
- Operating System: Linux6.12

Key features

- High-performance heterogeneous multi-core processor: 6x Cortex-A55 + Cortex-M7 + Cortex-M33.
- Built-in NPU with a computing power of up to 2 TOPS.
- Supporting 4K@30fps video encoding/decoding.
- Rich interfaces: 2x 1GbE, 2x CAN-FD, 2x M.2, 4x MIPI-CSI, USB 3.0 and USB2.0

Market segments

- Industrial Automation
- Edge Computing
- Smart Medical and Robotics
- Machine Vision
- Auto Electronics

NXP Gold Partner

A company that develops advanced hardware and software solutions to accelerate the digitalization of industrial products and processes. Its technologies integrate edge computing, IoT, AI, and data analytics to boost efficiency, enable smart device control, and support sustainable operations.

SOM-SMARC-MX95

High-performance, secure, and versatile module featuring multi-core processing, AI acceleration via a dedicated NPU, and advanced connectivity. It is ideal for edge computing and efficient, modular embedded integration.

- SMARC 82 X 50 MM
- Operating System: Clea OS, Yocto, Linux

Key features

- Heterogeneous processing with NPU up to 2.0 TOPS.
- Flexible connectivity.
- Industrial temperature range.
- Long lifecycle.
- Full integration support from carrier board design to OS.

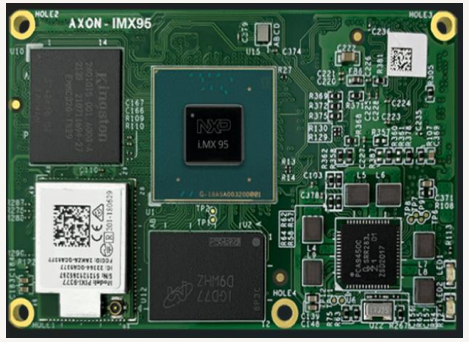
Market segments

- Transportation
- Industrial Automation
- Smart Devices
- Smart Buildings
- Smart Cities

NXP Gold Partner

TechNexion
INNOVATORS OF TECHNOLOGY

Global embedded computing company specializing in embedded Vision Camera solutions and Arm-based system-on-modules (SoMs), single-board computers, and software platforms for IoT and edge applications. Operating across multiple international locations. Supports industries such as medical, industrial, and transportation with reliable hardware and open-source software solutions.



AXON-IMX95

Engineered for rugged environments, offering robust performance, secure connectivity, and mechanical stability. It's ideal for robotics, drones, vehicle vision, and edge AI applications.

- AXON 38 x 58 mm
- Operating System: Linux (Yocto, Debian), Android

Key features

- Up to 6x Cortex-A55 cores + Cortex-M7/M33
- Integrated NPU (2.0 TOPS), GPU, ISP, 4K video
- 16GB LPDDR5, 32GB eMMC
- Dual GbE, USB, CAN, UART, I2C, SPI
- NXP IW611 Wi-Fi 6 + Bluetooth 5.4
- Camera-ready with up to 8 virtual channels
- Long-term availability (15+ years)

Market segments

- Robotics and Drones
- Vehicle Vision Systems
- Smart Manufacturing
- Edge AI and Embedded Vision
- Industrial and Vibration-Prone Applications

NXP Gold Partner

TechNexion
INNOVATORS OF TECHNOLOGY

Global embedded computing company specializing in embedded Vision Camera solutions and Arm-based system-on-modules (SoMs), single-board computers, and software platforms for IoT and edge applications. Operating across multiple international locations. Supports industries such as medical, industrial, and transportation with reliable hardware and open-source software solutions.

EDM-IMX95

Built for scalable embedded applications, combining high-performance processing, rich multimedia, and robust connectivity in a cost-effective SO-DIMM form factor. It's ideal for industrial, edge AI, and vision-based systems.

- EDM 69.6 x 35 mm
- Operating System: Linux (Yocto, Debian), Android

Key features

- Up to 6x Cortex-A55 cores + Cortex-M7 + Cortex-M33
- 16GB LPDDR5, 32GB eMMC
- 2.0 TOPS NPU, ISP, Mali-G310 GPU, 4K encode/decode
- Dual LVDS, MIPI DSI, MIPI CSI-2
- USB 3.1, PCIe Gen 3, CAN, UART, SPI, I2C, SDIO
- NXP IW611 Wi-Fi 6 + Bluetooth 5.3
- Long-term availability (15+ years)

Market segments

- Industrial Automation
- Smart Manufacturing
- Edge AI and Vision
- Robotics and Drones
- Vehicle Vision System

Toradex
Swiss. Embedded. Computing.

Global embedded computing company specializing in Arm-based system-on-modules (SoMs), single-board computers, and software platforms for IoT and edge applications. Operating across multiple international locations. Supports industries such as medical, industrial, and transportation with reliable hardware and open-source software solutions.

OSM iMX95

Designed to be completely machine-processable during soldering, assembly, and testing, OSM enables space-efficient designs, ideal for cost-optimized and high-volume products.

- OSM L 45 x 45 mm
- Operating System: Torizon OS, Yocto, Toradex Easy Installer, Free Rtos, QNX

Key features

- Solderable, connector-less System on Module
- Optimized for High-volume applications
- Perfect fit for fully automated production lines
- Modern NPU, with 2x better performance vs. i.MX 8M Plus
- LTS-supported Linux Software stack, including OTA, Remote Access and Device Monitoring

Market segments

- Industrial automation and robotics
- Smart transportation
- Medical devices
- Retail systems

Toradex
Swiss. Embedded. Computing.

Global embedded computing company specializing in Arm-based system-on-modules (SoMs), single-board computers, and software platforms for IoT and edge applications. Operating across multiple international locations. Supports industries such as medical, industrial, and transportation with reliable hardware and open-source software solutions.

Verdin iMX95

Built for next-gen edge applications with high-speed interfaces, AI acceleration, and industrial-grade reliability. Features LPDDR5, dual GbE, PCIe Gen 4, and Wi-Fi 6/BT 5.4 in a compact, future-proof form factor.

- Proprietary 69.6 x 35.0 mm
- Operating System: Torizon OS, Yocto, Toradex Easy Installer, Free Rtos, QNX

Key features

- Up to 6x Arm Cortex-A55 + Cortex-M7 for real-time processing
- Integrated NPU with up to 2 TOPS for edge AI acceleration
- Dual GbE, PCIe Gen 4, USB 3.0, and CAN-FD
- Industrial-grade design with long-term availability

Market segments

- Industrial automation and robotics
- Smart transportation
- Medical devices
- Retail systems

Toradex
Swiss. Embedded. Computing.

Global embedded computing company specializing in Arm-based system-on-modules (SoMs), single-board computers, and software platforms for IoT and edge applications. Operating across multiple international locations. Supports industries such as medical, industrial, and transportation with reliable hardware and open-source software solutions.

Aquila iMX95

Next-gen performance meets industrial reliability. Featuring Arm Cortex-A55 + M7 cores, LPDDR5, PCIe Gen 4, and AI acceleration—ready for edge AI, robotics, and connected systems. Built for scalability and long-term deployment.

- Proprietary 85.0 x 55.0 mm
- Operating System: Torizon OS, Yocto, Toradex Easy Installer, Free Rtos, QNX

Key features

- Up to 6x Arm Cortex-A55 + Cortex-M7 for real-time and safety-critical tasks
- Integrated NPU with up to 2 TOPS for AI/ML at the edge
- PCIe Gen 4, dual GbE, USB 3.0, and CAN-FD for high-speed connectivity
- Industrial-grade design with long-term availability and security features

Market segments

- Industrial automation and robotics
- Smart transportation
- Medical and healthcare devices
- Edge AI and embedded vision solutions

Toradex
Swiss. Embedded. Computing.

Global embedded computing company specializing in Arm-based system-on-modules (SoMs), single-board computers, and software platforms for IoT and edge applications. Operating across multiple international locations. Supports industries such as medical, industrial, and transportation with reliable hardware and open-source software solutions.

SMARC i.MX95

Compact, AI-ready, and built for mission-critical edge applications. Powered by NXP i.MX 95 with advanced safety, real-time processing, and high-performance graphics—ideal for industrial and connected systems.

- SMARC 82 x 50 mm
- Operating System: Torizon OS, Yocto, Toradex Easy Installer, Free Rtos, QNX

Key features

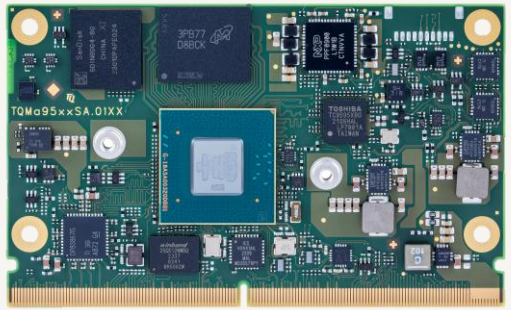
- SMARC 2.1 form factor with up to 6x Arm Cortex-A55 + Cortex-M7/M33
- Integrated NPU (up to 2 TOPS) for AI/ML at the edge
- LPDDR5, PCIe Gen 4, dual GbE, USB 3.0, and display interfaces
- Designed for scalability, long-term availability, and industrial reliability

Market segments

- Industrial control and automation
- Smart transportation and mobility systems
- Medical imaging and diagnostics
- Edge AI and HMI solutions

TQ Systems GmbH

Global technology company founded in 1994 across 14 locations worldwide, specializing in embedded systems, electronics development, and manufacturing solutions. The company supports a wide range of industries with innovative hardware and software technologies



TQMa95xxSA

Powerful AI, graphics, and real-time capabilities with integrated NPU, IPU, GPU, and Cortex® M33/M7 cores.

- SMARC 82 X 50 MM
- Operating System: Linux

Key features

- ML Accelerator 2 TOPS
- Integrated Cortex® M33 and M7
- High-speed communication via 1x 10 Gbit and 2x Gbit Ethernet (with TSN)
- MIPI CSI with ISP support
- 2x PCIe and 2x USB 3.0 interface

Market segments

- Industrial Automation
- Medical
- Healthcare
- Energy Utilities
- Robotics

TQ Systems GmbH

Global technology company founded in 1994 across 14 locations worldwide, specializing in embedded systems, electronics development, and manufacturing solutions. The company supports a wide range of industries with innovative hardware and software technologies

TQMa95xxLA

Enables AI, graphics, and real-time control with NPU, IPU, GPU, Cortex® M33/M7, and full signal access via LGA.

- Proprietary 44 X 44 MM
- Operating System: Linux

Key features

- ML Accelerator 2 TOPS
- Integrated Cortex® M33 and M7
- High-speed communication via 1x 10 Gbit and 2x Gbit Ethernet (with TSN)
- MIPI CSI with ISP support
- 2x PCIe and 1x USB 3.0 interface

Market segments

- Industrial Automation
- Medical
- Healthcare
- Defense / Aerospace
- Robotics

TRIA AN AVNET COMPANY

Tria Technologies is a world leader in the design and manufacture of embedded computing for OEMs. We offer a broad range of off-the-shelf modules to fully customized systems built for our customers. With a global footprint and deep in-house expertise, we support innovators from design to delivery.

TRIA OSM-LF-IMX95

Designed for scalable edge AI, multimedia, and industrial-grade real-time applications based on OSM standard, the smallest possible form factor without compromise on versatility.

- OSM 1.2: 45 X 45 MM
- Operating System: Linux Board Support Package. Android Board Support Package (on request)

Key features

- Hexa + RT Cores – Powerful mix of A55, M7, and M33
- AI and ISP – Built-in NPU and image signal processor
- 4K Video – Advanced GPU
- High speed PCIe, USB 3.0, Dual RGMII and 10Gb (SGMII) Ethernet interfaces
- Fast I/O – PCIe, USB 3.0, 2.5G Ethernet, CAN-FD
- Industrial-Ready – -40°C to +85°C

Market segments

- Industrial Automation
- Smart Infrastructure
- Medical Devices
- Edge AI and Vision
- Home Automation and Transportation

TRIA AN AVNET COMPANY

Tria Technologies is a world leader in the design and manufacture of embedded computing for OEMs. We offer a broad range of off-the-shelf modules to fully customized systems built for our customers. With a global footprint and deep in-house expertise, we support innovators from design to delivery.

TRIA SM2S-IMX95

Compact and scalable SMARC 2.2 module built for real-time edge computing. It features HD multimedia, robust connectivity, and industrial-grade reliability ideal for smart and automated systems.

- SMARC 2.2: 82 mm x 50 mm
- Operating System: Linux Board Support Package. Android Board Support Package (on request)

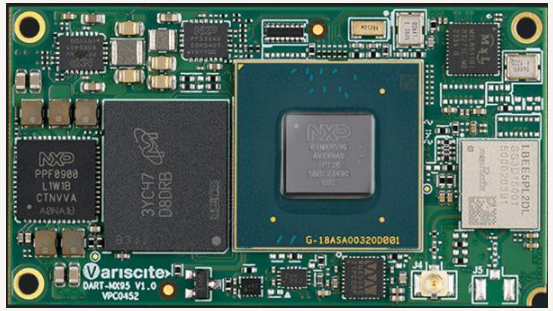
Key features

- AI-Ready – Built for edge AI and machine learning tasks
- Multimedia Power – Handles HD video and advanced graphics
- Real-Time Performance – Low-latency for industrial automation
- Flexible Connectivity – Ethernet, Wi-Fi, and Bluetooth onboard
- Rugged Design – Reliable in harsh industrial environments

Market segments

- Industrial Automation
- Smart Infrastructure
- Transportation and Home Automation
- Medical Devices
- Edge AI and Vision

Variscite designs and manufactures scalable System-on-Modules based on NXP's i.MX processors, ideal for low-power, high-performance embedded applications. Offering Linux and Android support, 15+ years long-term availability, and ISO-certified quality, Variscite also provides custom hardware and software services.



VAR-SMARC-MX95

SMARC-compliant System on Module / Computer on Module featuring high-end graphics, advanced security and functional safety, AI/ML acceleration, and comprehensive high-speed connectivity.

- SMARC: 82 mm x 50 mm
- Operating System: Linux Yocto, Debian, Android, FreeRTOS

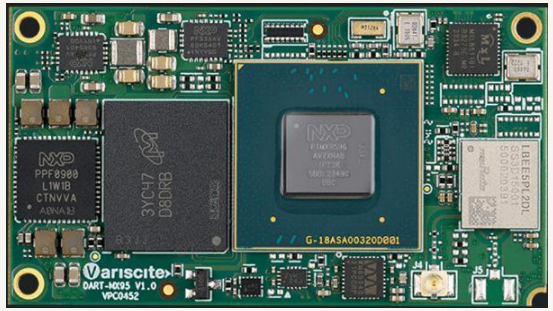
Key features

- Certified WiFi 6 dual-band 802.11ax/ac/a/b/g/n with optional 802.15.4 and Bluetooth/BLE 5.4, dual GbE with TSN support, an integrated NPU with 2 TOPS AI/ML acceleration, a powerful 2D/3D GPU, 4K displays, dual MIPI CSI2 camera, 4K encode/decode, USB 3.0, dual PCIe Gen 3.0, and industrial temperature grade support.
- VAR-SMARC Pin2Pin product family, enabling a pin-compatible upgrade path across processors without carrier board redesign.

Market segments

- Industrial Automation
- Robotics and Vision Systems
- Medical and Healthcare
- POS and security
- IoT and home automation

Variscite designs and manufactures scalable System-on-Modules based on NXP's i.MX processors, ideal for low-power, high-performance embedded applications. Offering Linux and Android support, 15+ years long-term availability, and ISO-certified quality, Variscite also provides custom hardware and software services.



DART-MX95

Compact, high-performance System-on-Module from Variscite, built around NXP's i.MX 95 processor. It's designed for powerful edge platforms, combining advanced processing, AI/ML acceleration, rich multimedia, and robust connectivity in a cost-effective, scalable form factor.

- Proprietary: 55 mm x 30 mm
- Operating System: Linux Yocto, Debian, Android, FreeRTOS

Key features

- Up to 6x Cortex-A55 cores (2.0GHz), Cortex-M7 (800MHz), Cortex-M33 (250MHz)
- Integrated NPU (2.3 TOPS), 2D/3D GPU, 4K encode/decode
- Dual GbE + 10GbE, dual PCIe Gen 3, USB 3.0/2.0, CAN FD
- Certified Wi-Fi 6, BT/BLE 5.4, optional 802.15.4
- Member of Variscite's scalable DART Pin2Pin family

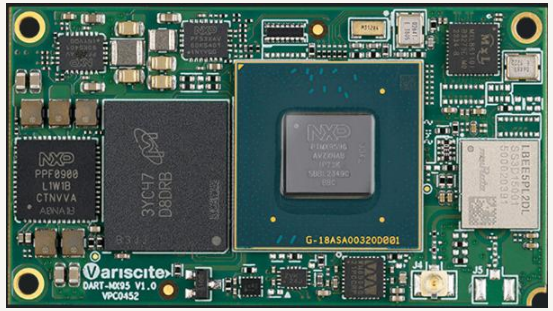
Market segments

- Industrial Automation
- Robotics and Vision Systems
- Medical and Healthcare
- POS and security
- IoT and home automation

NXP Registered Partner

Vantron

Globally leading provider of edge computing and embedded IoT solutions. Driven by continuous innovation and a customer-centric philosophy, we deliver advanced, cost-effective turnkey solutions that empower our clients to achieve lasting success. With over two decades of industry experience



VT-SBC-SMARC-IMX95

VT-SBC-SMARC-IMX95 delivers up to 4K@60Hz H.265/H.264 video encoding and decoding capabilities. It offers dual 4-lane or single 8-lane LVDS

- SMARC: 82 mm x 50 mm
- Operating System: Linux Yocto & Android

Key features

- • 4K @60Hz H.265/H.264 video CODEC
- • HDMI/MIPI DSI/LVDS for video output
- • Rich I/O signals for flexible expansion
- • 1/10 Gigabit Ethernet, Wi-Fi 5, Bluetooth 5.0
- • Up to 2 TOPS NPU for AI acceleration

Market segments

- Industrial Automation
- Robotics and Vision Systems
- Medical and Healthcare
- POS and security
- IoT and home automation

VEST Embedded Solutions

Leading global provider of technology services, products and solutions. APC specializes in embedded systems and advanced control technology solutions ranging from ready-to-use modules, customized modules to bespoke product design and development tailored to your needs. APC has been delivering best-in-class solutions

VEST SMX i.MX95

Designed for high-performance edge intelligence, the i.MX 95 family delivers powerful AI acceleration, scalable real-time processing, and robust security. It's ideally suited for industrial automation, edge AI systems, smart medical devices, and advanced HMI applications.

- SMARC: 82 mm x 50 mm
- Operating System: Linux Yocto & Android

Key features

- Industrial Automation, Industry 4.0 and Gateways
- Medical: Pumps, respirators, clinical monitoring
- IoT: Smart appliances, video/audio conferencing, IP phones, smart carts, home automation gateways
- Dual Gigabit Ethernet with two ports for Time Sensitive Network (TSN) collaborating with NXP Real Time Edge Software for deterministic control with precise time-synchronization

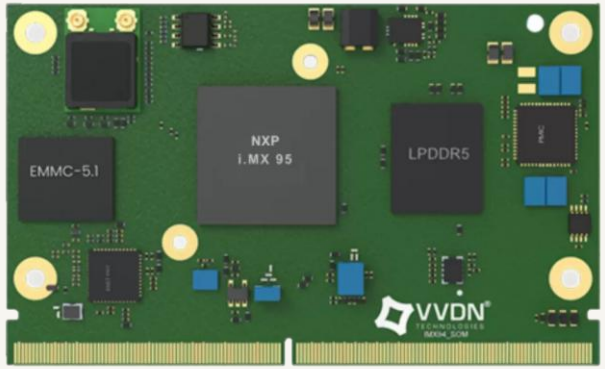
Market segments

- Industrial Automation
- Robotics and Vision Systems
- Medical and Healthcare
- POS and security
- IoT and home automation

NXP Gold Partner

VVDN TECHNOLOGIES

Global provider of Software, Product Engineering, Electronics Manufacturing Services (EMS), and solutions. As an NXP Gold Partner, we develop next-generation solutions for our customers, backed by a strong portfolio of multiple System-on-Modules (SOMs), edge AI boxes, and reference designs that enable accelerated development cycles and faster time-to-market.



VVDN – NXP – i.mx 95 SoM

Compact, industrial-grade embedded computing platform designed to deliver high-performance processing, real-time control, and advanced connectivity for next-generation industrial and smart applications.

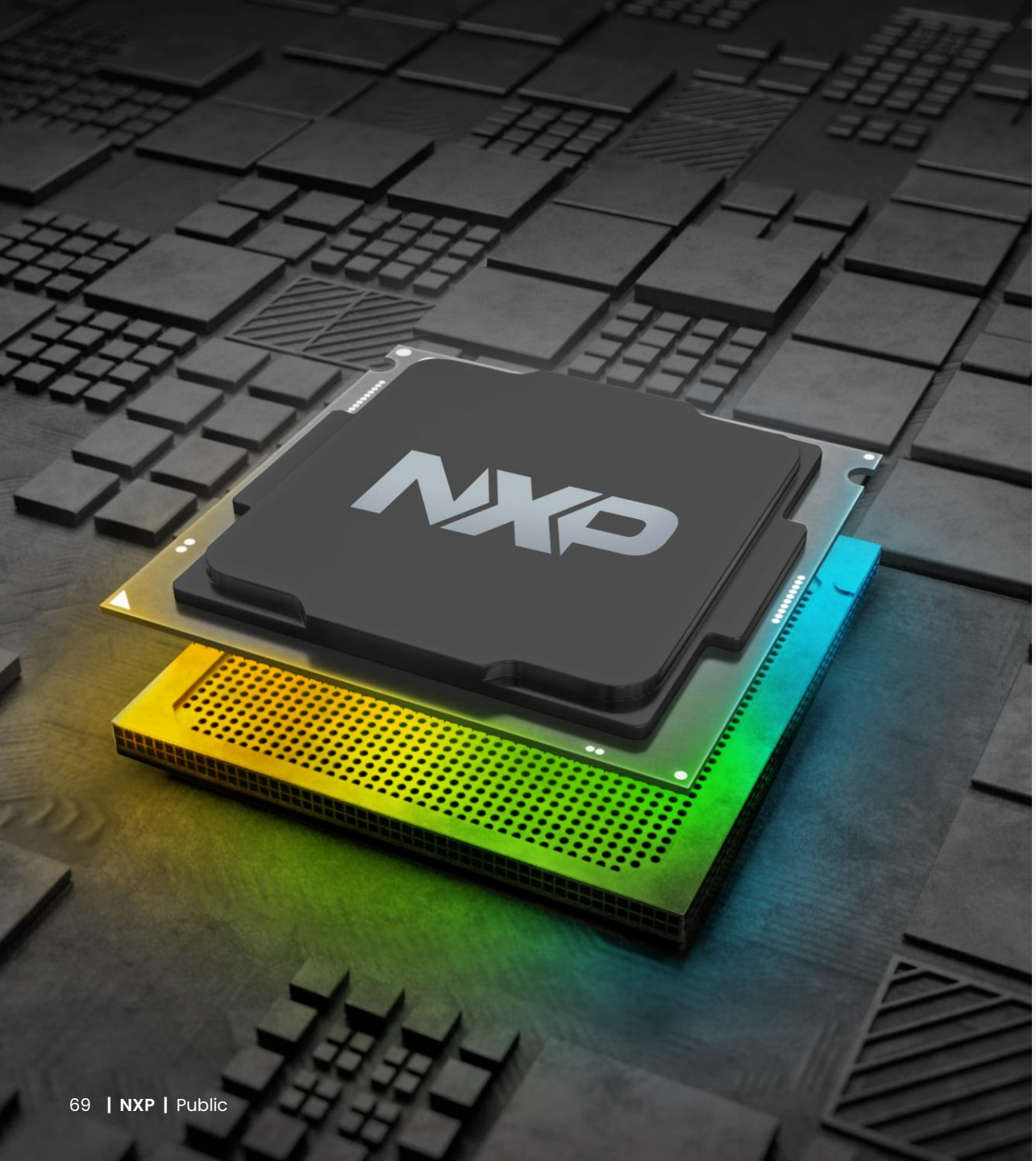
- SMARC: 82 mm x 50 mm
- Operating System: Linux Yocto & Android

Key features

- 6 x Cortex-A55 @1.8GHz ,1 x M33 core @333MHz, 1 x M7 core @800MHz
- NPU with up to 2.0 TOPS Neural Network performance
- Up to 16 GB LPDDR5 Memory
- Wi-Fi 6 & Bluetooth 5.4 Connectivity
- Rich Industrial-Grade Connectivity & Interfaces

Market segments

- Industrial Automation
- Robotics and Vision Systems
- Medical and Healthcare
- POS and security
- IoT and home automation



Shaping the Future Together

The i.MX 95 family is more than a processor—it's a platform that enables intelligence at the edge, security by design, and scalability across industries. But the true power of i.MX 95 comes from collaboration.

Through our **Global Partner Ecosystem**, we accelerate innovation, reduce complexity, and bring real-world solutions to market faster. Together with our partners, we're driving advancements in industrial automation, healthcare, automotive, and smart infrastructure.

The future of edge intelligence is here.
Let's build it—together.

Learn more at **nxp.com/iMX95**

Brighter
Together

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