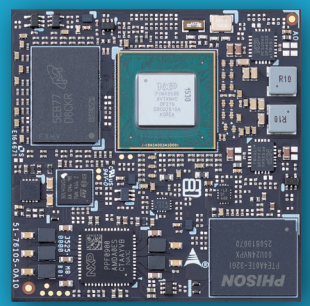
ADLINK
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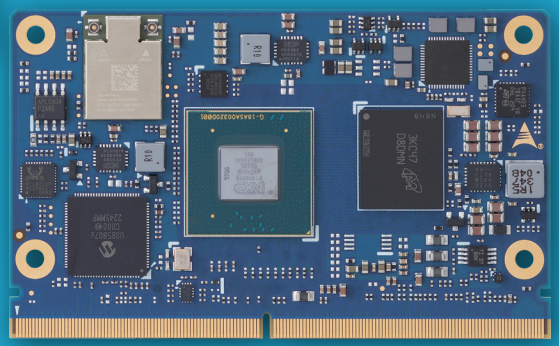
For The
Intelligent Edge

OSM-IMX95 / LEC-IMX95

NXP® i.MX 95-based OSM/SMARC Computer on Modules



OPEN STANDARD MODULE™



SMARC module

ADLINK's modules bring the full power of the NXP® i.MX 95 application processor to space-constrained, next-generation edge systems. Designed for advanced AI, vision, and real-time control applications, these modules integrate a high-performance NPU, enhanced security architecture, and rich connectivity options. The OSM-IMX95 offers an ultra-compact footprint for embedded, rugged designs, while the SMARC-based LEC-IMX95 provides maximum flexibility for scalable industrial deployments.

Built on open standards and backed by ADLINK's extensive engineering expertise, both modules accelerate time-to-market. 15 years of availability, robust design, and optimized performance-per-watt make these platforms ideal for mission-critical environments.

- NXP® i.MX 95 with 6x Arm® Cortex®-A55
- Arm® Cortex®-M7 and Arm® Cortex®-M33
- NXP® eIQ® Neutron NPU, ISP and VPU, Arm® Mali G310 3D GPU
- Up to 8GB LPDDR4 (OSM), 16GB LPDDR5 (SMARC)
- HDMI / LVDS / MIPI-DSI / MIPI-CSI
- SMARC V2.2 (82 x 50mm), OSM R1.2 (45 x 45mm)

adlinktech.com/en/computer-on-module-nxp-imx95

NXP Partner Program

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Smarter, Scalable, Secure

I-Pi Development Kits

The ADLINK I-Pi SMARC IMX95 Development Kit gives engineers a fast, practical way to bring NXP® i.MX 95–based designs to life. With a ready-to-use SMARC module, carrier board, and pre-integrated software stack, the kit removes hardware complexity so you can focus on application innovation. Rapid prototyping, easy expansion, and reliable performance make it the ideal starting point for accelerating edge AI, vision, and industrial solutions.

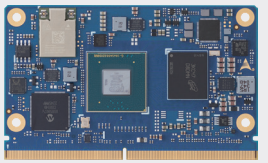


NXP Partner Program

Key Features

- High Scalability
- Power Efficiency
- Reduced TCO
- 15 Years Longevity

Specifications

	OSM-IMX95	LEC-IMX95
		
CPU	NXP® i.MX 95 series with 2/4/6-core Arm® Cortex®-A55 1x Arm® Cortex®-M7, 1x Arm® Cortex®-M33	NXP® i.MX 95 series with 2/4/6-core Arm® Cortex®-A55 1x Arm® Cortex®-M7, 1x Arm® Cortex®-M33
Memory/Storage	Up to 8 GB LPDDR4X	Up to 16 GB LPDDR5
Cache	512KB	512KB
Boot Loader	U-boot	U-boot
Graphics Outputs	Dual Channel LVDS, HDMI or DSI	Dual Channel LVDS, HDMI or DSI
Camera	1x MIPI CSI Camera	2x MIPI CSI Camera (1x shared from DSI)
LAN	2x GbE with TSN	2x GbE with TSN, 1x 10GbE with TSN (optional)
USB	1x USB 3.1, 1x USB 2.0 (host)	2x USB 3.1, 4x USB 2.0 (one shared with WIFI on port 1)
Extension ports	4x UART, 3x SPI, 2x I2C, 14x GPIO, 2x SDIO	4x UART(SER2 shared with SPI1), 2x SPI, 3x I2C, 14x GPIO, 1x SDIO
Audio	2x I2S (located on the carrier)	1x I2S
PCI Express	1x PCIe x1 Gen3	2x PCIe x1 Gen3 (one shared with WIFI on port B)
TPM	Yes (located on the carrier)	Yes
SEMA Support	No	No
Power Supply	5.0 V DC±5%	5.0 V DC±5%
Operating Temperature	-40°C to +85°C	-40°C to +85°C
Form Factor & Compatibility	OSM Size-L, 45 x 45 mm, OSM specification v1.2	SMARC short size, 82 x 50 mm, SMARC specification v2.2

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