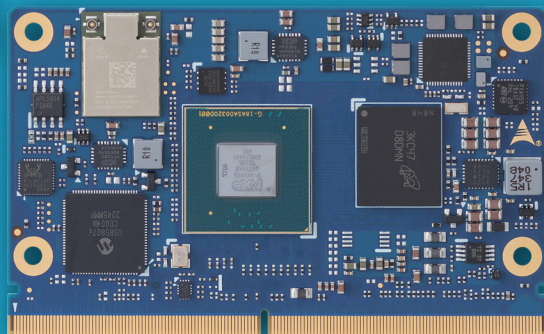


# OSM-IMX95 / LEC-IMX95

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



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)

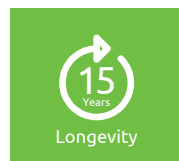
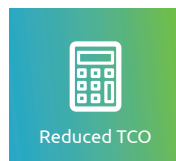
Smarter, Scalable, Secure

## 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.

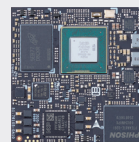


### Key Features

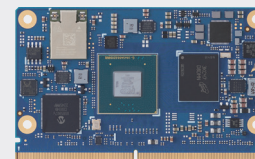


### Specifications

#### OSM-IMX95



#### LEC-IMX95



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

