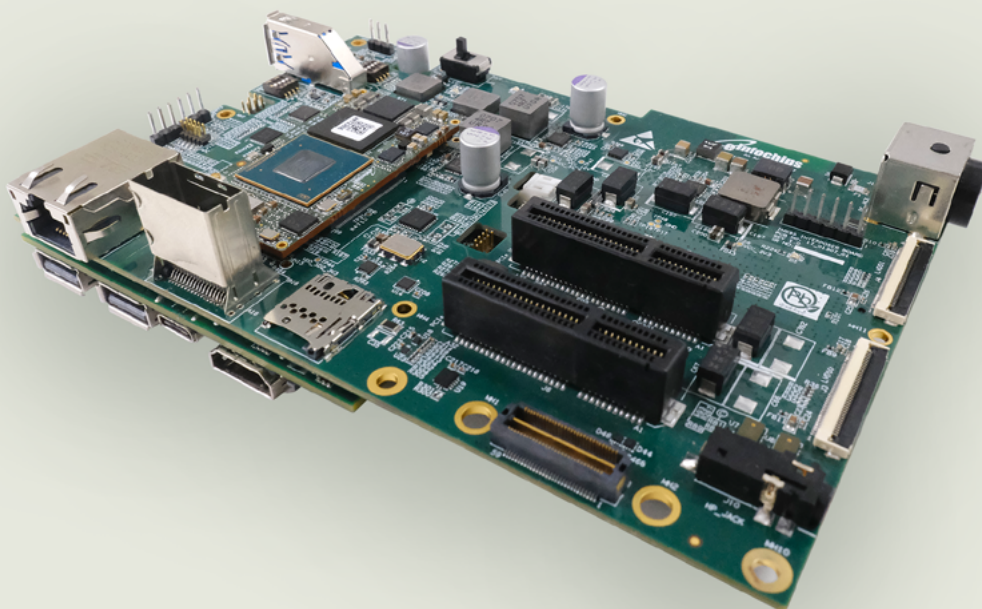


# NXP i.MX95 Evaluation Kit

## eInfochips-i.MX95 Evaluation Kit Reference Development Platform



### About eInfochips

eInfochips is a global leader in product engineering and semiconductor design services, offering solutions across multiple industry verticals including aerospace, security, industrial automation, healthcare, and smart home appliances. As an elite design partner of NXP Semiconductors, eInfochips has been selected for "Early Access Programs" for the entire i.MX series. We leverage deep expertise in embedded computing to deliver innovative solutions for our global customers.

### Engineering Highlights

- **30 Years** of experience in system design
- **17 Design centers** spread across India, USA, Europe, and Africa
- **750+ Products** designs
- **100M Product** deployments
- **ISO9001, AS9100, ISO3485, ISO16949** compliant

### EIC-i.MX95 Evaluation Kit Reference Development Platform

The EIC-i.MX95 Evaluation Kit Reference Development Platform is a high-performance evaluation kit based on the NXP i.MX95 applications processor, designed for machine learning, industrial automation, automotive, and edge AI applications. It features 6x Arm Cortex-A55 cores (up to 1.8 GHz) for power-efficient processing, along with 1x Cortex-M33 (333 MHz) and 1x Cortex-M7 (800 MHz) microcontrollers for real-time applications. For AI workloads, it offers a dedicated NPU supporting 8-bit and 16-bit operations adding intelligence to designs for devices in smart homes, smart cities, smart factories, and automotive displays. The kit provides high-speed connectivity options, including Wi-Fi 6, Bluetooth 5.3, Gigabit Ethernet, PCIe, USB 3.0, and CAN. Additionally, it supports MIPI DSI, LVDS, HDMI, and MIPI CSI camera interfaces for display and multimedia applications. With a pre-integrated Linux OS, the EIC-i.MX95 EVK enables rapid development and deployment, making it an ideal choice for developers building next-generation embedded systems.

**Edge Computing**

**Infotainment**

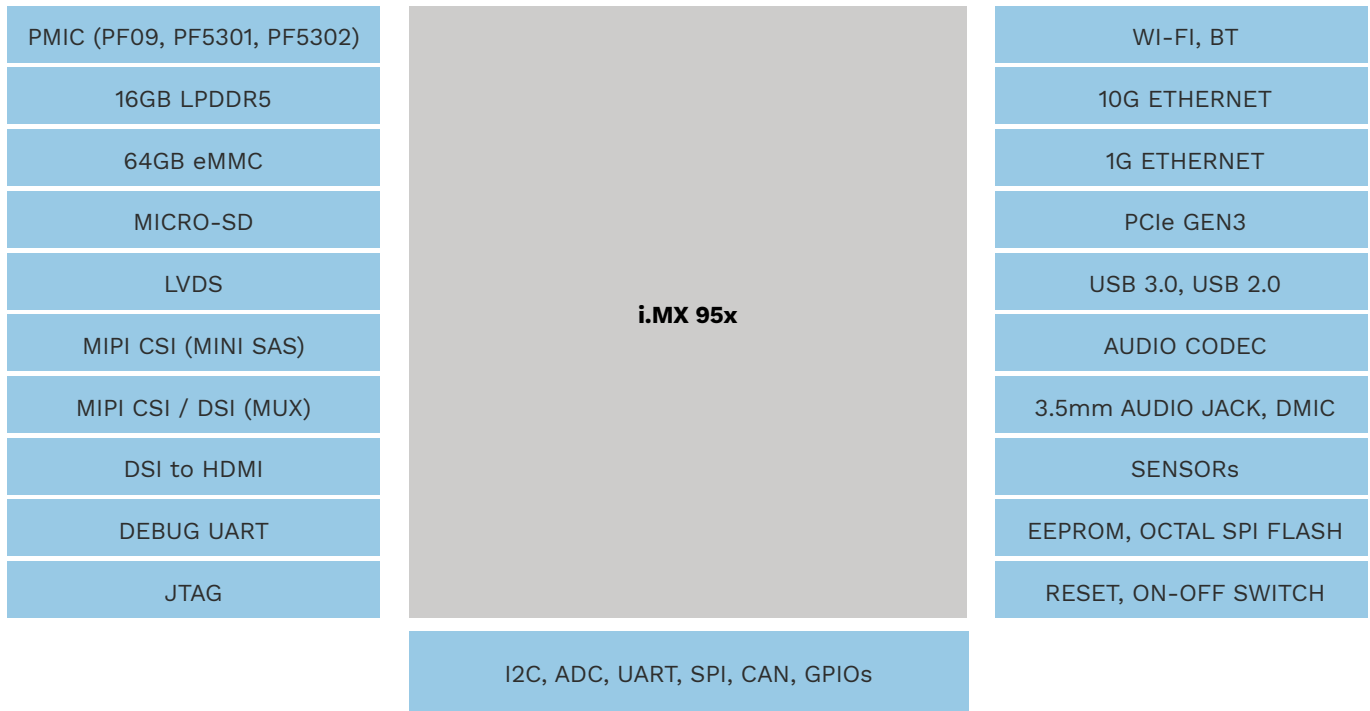
**Industrial Automation**

**Real-time Aircraft Surveillance**

**Smart Appliances**

**Clinical Monitoring**

**Robotics**



**Note:** This is preliminary information and subject to change without notice

#### Processor

- **CPU Name:** NXP i.MX95
- **CPU Type:** 6x Arm Cortex-A55, up to 1.8 GHz frequency
- **NPU:** 2.0 TOP/s Neural Network performance up to 1.0 GHz
- **GPU:** Arm Mali-G310

#### Memory

- **DDR** – 1x 16GByte LPDDR5 (4Gbit x 32, 8.5GT/s)
- **eMMC** – 1x 64GByte eMMC 5.1
- **EEPROM** – 1x 32Kbit EEPROM
- **Octal SPI Flash** – 1x 1Gbit Octal SPI Flash
- **Micro SD Card:** 1x SD Card 3.0 interface

#### Connectivity

- **Wi-Fi** – LBES5PL2EL-923 - IEEE 802.11a/b/g/n/ac/ax, 2.4/5.0GHz
- **Bluetooth** – Bluetooth 5.3 compliant with basic rate (BR)/enhanced data rate (EDR)/ low energy (LE)
- **USB** – 1x USB 3.0 (Type C), 2x USB 2.0

- **Ethernet** – 1x 10Gbps interface, 2x 10/100/1000Mbps interface
- **PCI Express** – 2x PCIe Slot (x4) with PCIe Gen3 x1 interface

#### Display & Camera

- 1x 4-lane MIPI CSI v2.0 (with ISP) /DSI v1.2 interface
- 2x LVDS (Up to 1080p60) interface
- 1x HDMI 1.4 (Mux with DSI)
- 1x 4-lane MIPI CSI v2.0 (with ISP) interface

#### Audio & Sensors

- 1x Stereo Out and Mic In (3.5mm Audio Jack)
- 1x PCM (Mux), 1x SAI (Mux), 2x Digital Mics
- 1x Ambient + Proximity Sensor, 1x Temperature Sensor, 1x RTC

#### Others

- 1x SDIO3.0 (Mux),
- 4x I2C, 8x 12-bit ADC, 5x UART, 1x JTAG, GPIOs
- 1x CAN, 1x SPI

#### Target Applications

- **Automotive** – Connectivity Domain Controller, In-Vehicle Infotainment, eCockpit, Software Defined Radio, Occupant Monitoring System, Blindspot Monitoring System, Multi-camera Monitoring
- **Aviation** – Communication and Navigation Systems, Real-time Network Airborne systems, Passenger Seatback Entertainment
- **Industrial** – Gateway, Scanner, Printer, Ruggedized HMI, Factory Automation, Robotic Controller, Machine Visual Inspection, Digital Kiosk, Digital Signage, Vision Payment Systems, Industrial PCs
- **Medical** – Pumps/Respirator/Clinical Monitoring
- **IoT** – Smart Appliances, Video/Audio Conferencing, IP Phones, Smart Shopping Carts, Home Automation Control Gateway

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