

i.MX 93 Applications Processor

NXP Communicator

MCIMX93-QSB

i.MX 93 Quick Start Board

Communicator Date: September 2024

Full Market Launch Date: September 2024



i.MX 93 | Product Summary

The i.MX 93 family represents NXP's latest power-optimized processors for smart home, building control, contactless HMI, IoT edge, Automotive, and Industrial applications.

More information can be found on the i.MX 93 Plus six-pack presentation.



Feature Highlights

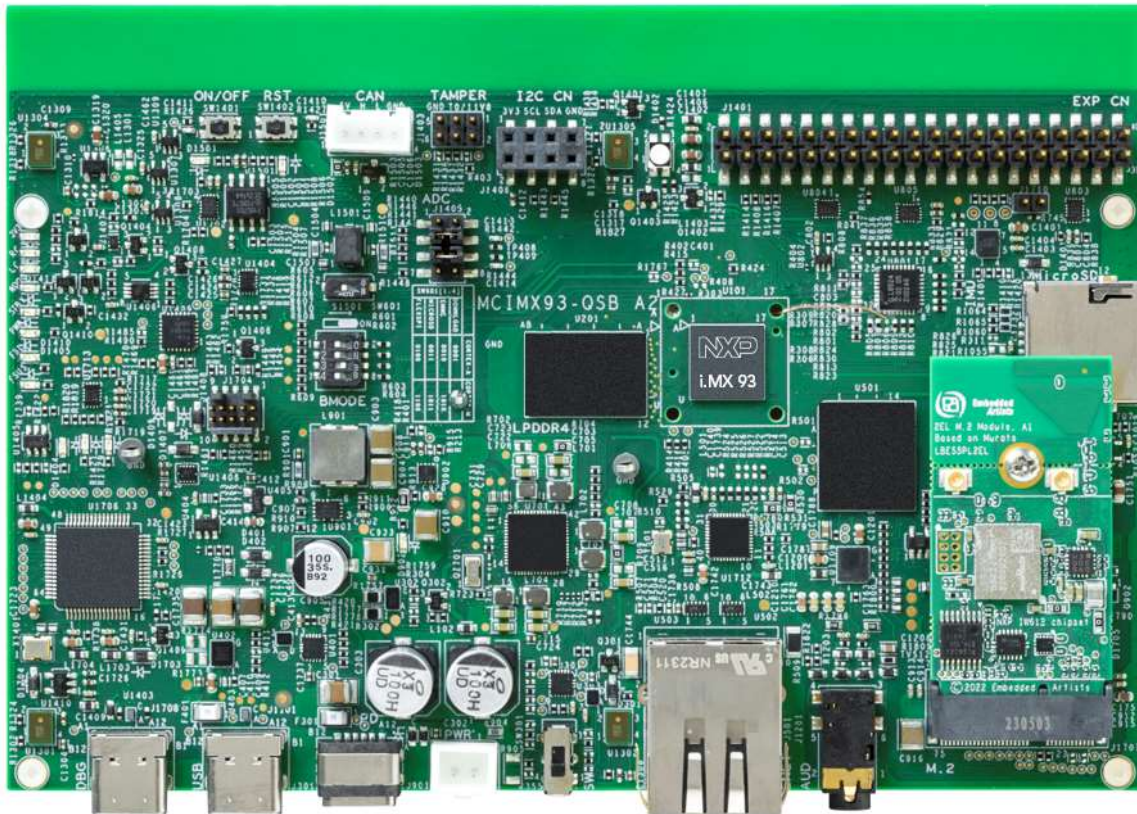
- Powerful dual Arm® Cortex®-A55 processor with speeds up to 1.7GHz integrated with a Neural Processing Unit (NPU) that accelerates machine learning.
- General-purpose Arm® Cortex®-M33 running up to 250 MHz is for real-time and low-power processing.
- The i.MX 93 Automotive qualified part is particularly useful for applications such as:
 - Driver monitoring system (DMS)
 - Cost optimized gateway
 - General purpose compute



i.MX 93 | Quick Start Evaluation Kit

Manufacturing Part Number: MCIMX93-QSB

Status: **Orderable now**



MCIMX93-QSB Board

Overview

The i.MX 93 quick start evaluation kit provides a low-cost platform to evaluate the i.MX 93 applications processors in a 9x9mm package.

The single-board solution consists of the i.MX 93 SoC (9x9mm package), LPDDR4/LPDDR4X, eMMC, PMIC and brings out the broad connectivity that is needed for product evaluation. This kit provides an excellent starting point by providing a low-cost reference board design to accelerate your time to market.

Ethernet

The i.MX 93 processor supports two Gigabit Ethernet controllers (capable of simultaneous operation) with support for energy efficient Ethernet (EEE), Ethernet AVB, and IEEE 1588.

On the MCIMX93-QSB board, one RTL8211FDI-VD-CG Ethernet transceiver is used that complies with 10Base-T, 100Base-TX, and 1000Base-T IEEE 802.3 standards.

The data transferred between the Ethernet controller (ENET1) and PHY (U1712) is via the reduced gigabit media-independent interface (RGMII) for 1000Base-T, 10Base-T, and 100Base-TX. The transceiver connects to one 10 / 100 / 1000 Mbit/s Link/Active RJ45 connector. The RJ45 connector integrates a Magnetic transformer inside, so it can be directly connected to an Ethernet transceiver (or PHY)

Please refer to **User Guide** and **Quick Start Guide** for more information.

Suggested for Stocking

MCIMX93-QSB is in the Distributor PriceBook and orderable now, shipment will start once orders are confirmed.

Export compliance information can be found in the stocking Excel file.

Suggested for Stocking (Y/N?)	Full Market Launch Date	PN	Resale (10Ku)	DBC (\$USD)	Approx. Ship Date	Suggested Stocking	MPQ
Y	Sept 2024	MCIMX93-QSB			Available	10	1

i.MX 93 | Available Documentation and Useful Links

- NXP i.MX 93 Series application processors [Summary Page](#)
- i.MX 93 product [Landing Page](#)
- i.MX 93 Quick Start Evaluation Kit [Landing Page](#)
- i.MX 93 Quick Start Guide [QSB Guide](#)
- MPU Selector Guide can be found on NXP [DistyNet](#) (Part numbers, Detailed parametric)
- The six-pack, communicator, attached product list and stocking information can also be found on NXP [DistyNet](#)

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