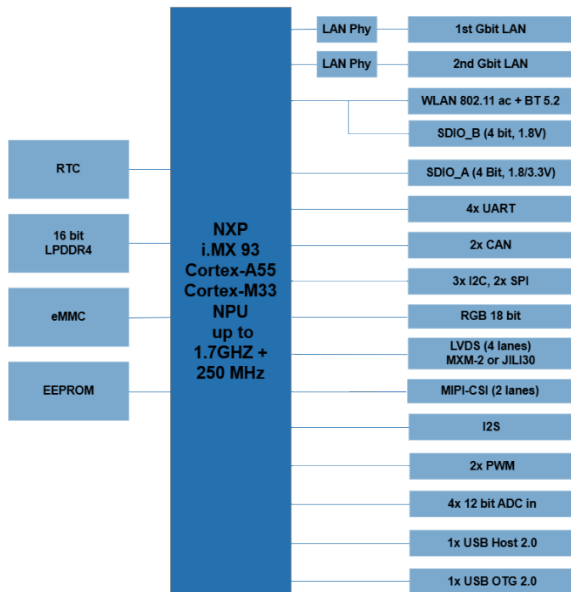


Characteristics

- NXP i.MX93 Application Processor:
2x Cortex®-A55 & Cortex®-M33, NPU
Arm®TrustZone® architecture, EdgeLock® secure enclave
Energy Flex architecture
- LPDDR4, eMMC, EEPROM
- Real-Time Clock (RTC)
- Extended Industrial Temperature Range
- Highly integrated SoM for easy carrier board design
- Minimum availability: 2038

Block Diagramm

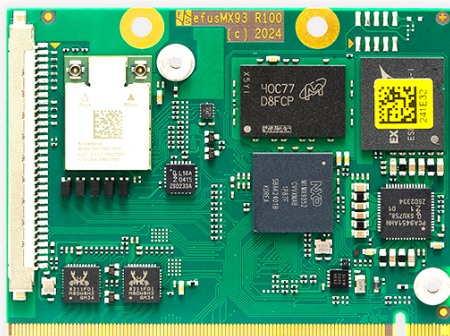


Description

efusMX93 – Efficient. Functional. Universal. Scalable

The **efusMX93** module combines the energy-efficient **NXP i.MX93 CPU** with the proven advantages of the **efus standard**: efficient in power consumption, function-rich with numerous interfaces, universal in application, and scalable for a wide range of use cases.

Thanks to its compact form factor, standardized MXM-2 connector and layout-friendly pin assignment, the efusMX93 is easy to integrate into custom carrier boards – making it ideal for industrial, medical, HMI, and other embedded applications.



Operating Systems

F&S offers comprehensive software support for the operating system as well as various workshops*.

- Linux Yocto
- Linux Debian
- Windows 11 IoT Enterprise
- FreeRTOS/Zephyr™ for Cortex-M
- Qt workshop
- Secure Boot workshop
- Asymmetric Multiprocessing workshop

Starterkit

To facilitate the implementation of the module in the target application, F&S offers a Starterkit*, including:

- efusMX93
- Baseboard
- Cable Kit
- 7" LVDS Touch-Display (1024 x 600) px
- Cooling Solution

Order Notations

efusMX93-V4I-LIN

standard, industrial:

i.MX93: 2x Cortex-A55 @ 1.7GHz, 2GB RAM, 64GB eMMC, EEPROM, 2x Gbit LAN Phy, 2x USB, WiFi 6/BT5, LVDS, RTC, -25°C +85°C, Linux

In addition to the standard version(s) listed on our homepage, F&S also offers and supports customer-specific configurations***.

EFUSMX93-SKIT-LIN

Starterkit for efusMX93.

Technical Data (Quickfacts)

| | |
|--------------------|--|
| Power Supply: | 5 VDC |
| Power Consumption: | 2 W (typ.) |
| Processor: | NXP i.MX93 |
| Memory: | LPDDR4 x16 up to 2GB eMMC up to 64GB EEPROM |
| Interfaces: | 2x Gbit LAN Phy SDIO (4 bit) 2x USB 2.0 OTG 2x CAN-FD, 7x UART, 6x I2C, 2x SPI, I2S, 2x PWM, 4x ADC JTAG |
| I/O voltage: | 3.3 V |
| Display: | MIPI-DSI (4-lane) or LVDS (4-lane) |
| Camera: | MIPI-CSI (2-lane) |
| RTC | PCF85263ATL |
| Temperature Range: | -40°C ... +85°C |
| Size (L x B x H): | (47 x 62.1 x 11) mm |
| Weight: | ≈ 15 g |

* You can find detailed information on our website.

*** Please contact us for further information.