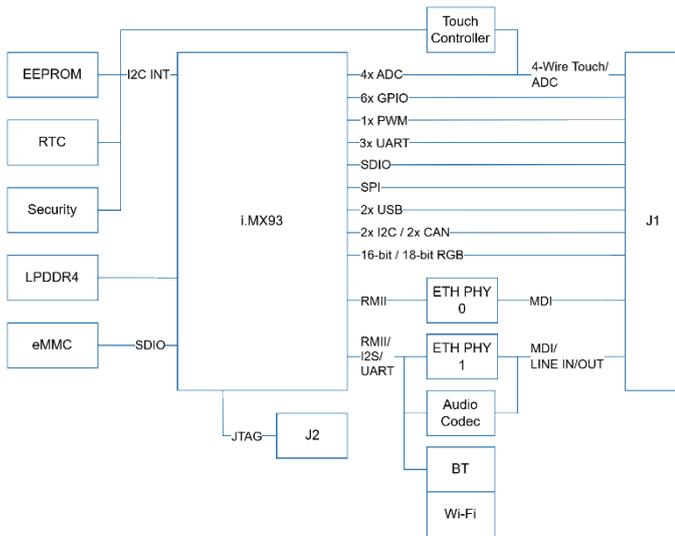


Characteristics

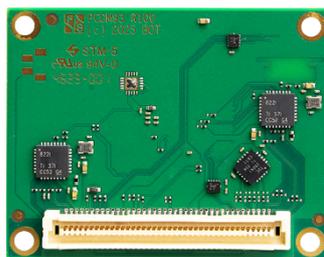
- NXP i.MX93 Application Processor:
2x Cortex®-A55 & Cortex®-M33, NPU
Arm®TrustZone® architecture, EdgeLock® secure enclave
Energy Flex architecture
- LPDDR4, eMMC, EEPROM
- Real-Time Clock (RTC)
- Extended Industrial Temperature Range
- Well balanced price/performance ratio
- Minimum availability: 2038

Block Diagram



Description

The **PicoCOM93**, based on the **NXP i.MX93**, provides a modern Linux platform with an integrated **EdgeLock Secure Enclave**, generous **eMMC** for **A/B updates**, and optional **Wi-Fi/Bluetooth** connectivity. This makes the module ideally suited for meeting the requirements of the **Cyber Resilience Act (CRA)** and ensuring a smooth transition from **Windows CE/Compact to Linux**.



Operating Systems

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

- Linux Yocto / 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:

- PicoCOM93-V31**
- Baseboard
- Cable Kit
- 7" RGB Touch-Display (800 x 480) px
- **Cooling Solution**

Order Notations

PicoCOM93-V31-LIN

standard, industrial:

i.MX93: 2x Cortex®-A55 @ 1.7GHz with NPU, 1GB RAM, 8GB eMMC, RGB, 1x LAN, EEPROM, AudioCodec, Touch Codec, RTC, -25°C +85°C, Linux

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

PicoCOM93-SKIT-LIN

Starterkit for PicoCOM93.

Technical Data (Quickfacts)

Power Supply:	3.3V VDC
Power Consumption:	2 W (typ.)
Processor:	NXP i.MX93
Memory:	LPDDR4 x16 up to 2GB eMMC up to 64GB 64Kb EEPROM
Interfaces:	2x 100Mbit LAN Phy , Wifi 6 & BT 5.4 1x SDIO (4 bit), 2x USB 2.0 2x CAN-FD or I2C, 3x UART, 6x GPIO, SPI, Audio Codec, PWM, 4x ADC or Touch Codec

Security Element

EdgeLock® SE05X

I/O voltage:	3.3V
Display:	RGB (16/18 bit)
RTC:	PCF85263ATL
Temperature Range:	-40°C ... +85°C
Size (L x W x H):	(40 x 50 x 8) mm
Weight:	≈ 15 g

* You can find detailed information on our website.

** Other configurations possible

*** Please contact us for further information.