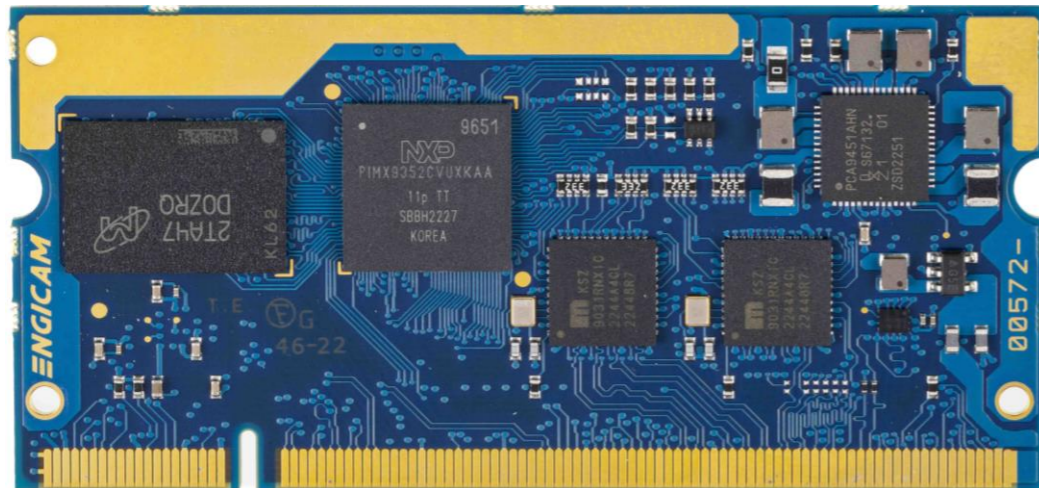


i.Core MX91 is an energy-efficient SOM suitable for secure gateway, IoT, industrial devices based on the newest NXP's i.MX 91 processor.

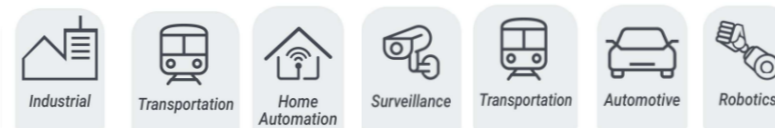
The new module is equipped with Arm® Cortex®-A55 @ up to 1.4 GHz processor includes industrial features and temperature grade, a wide set of peripherals, connectivity and security options such as 2x USB 2.0.



HIGHLIGHTS

- Standard Edimm 2.0
- Powerful Arm Cortex - A55 processor
- Secure gateway, connectivity, IoT and industrial applications

APPLICATIONS



FEATURES

	CPU	NXP i.MX 91
	CORES	Arm Cortex -A55 @ up to 1.4 GHz processor
	MEMORY	Up to 2GB LPDDR4 @2400MTs
	OPERATING SYSTEM	Linux, Android
	POWER SUPPLY	+5V DC
	NETWORKING	2x Gb Ethernet interfaces (1x RGMII option available)

	USB	<ul style="list-style-type: none"> • USB OTG 2.0 • USB HOST 2.0
	MASS STORAGE	Starting from 4GB eMMC drive soldered on-board
	PERIPHERAL INTERFACES	UART, I ² C, SPI, JTAG, CAN,SDIO, GPIOs
	OPERATING TEMPERATURE*	Industrial qualified
	DIMENSIONS	32 x 67,6 mm

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

BLOCK DIAGRAM

