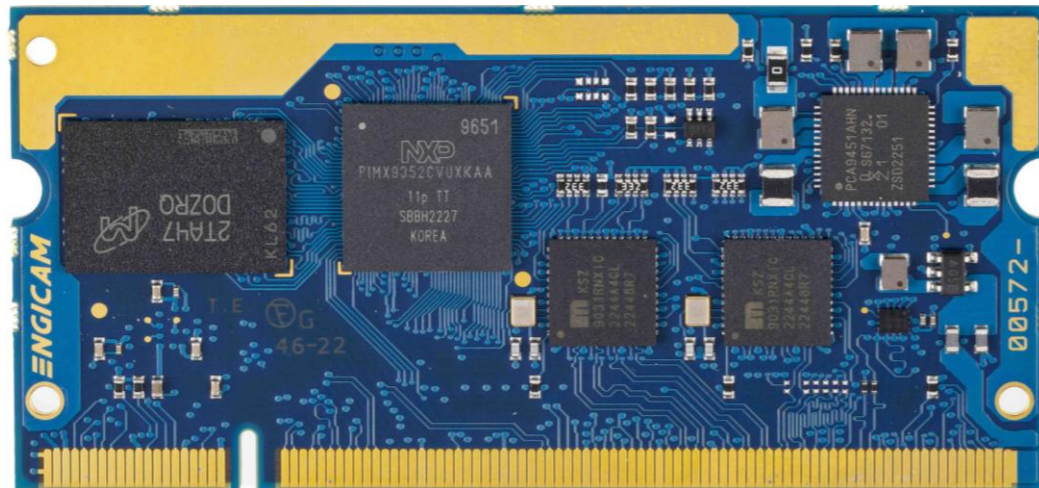


i.Core MX91 is an energy-efficient SOM suitable for secure gateway, IoT, industrial devices based on the newest NXP's i.MX 91 processor.

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.



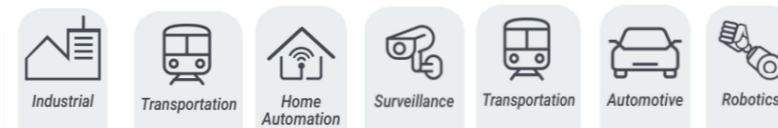
FEATURES

| | | |
|--|------------------|---|
| | 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) |

HIGHLIGHTS

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

APPLICATIONS



| | | |
|--|------------------------|---|
| | 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

