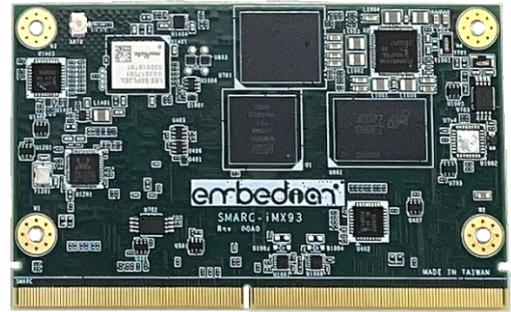


SMARC 2.0/2.1 Module with NXP i.MX93  
2 x 1.7GHz Cortex-A55 and 200Mhz Cortex-M33

## Features

- NXP i.MX93 Processor
  - 2 x ARM Cortex-A55 @ 1.7GHz
  - 1 x ARM Cortex-M33 @ 250MHz
  - ARM Ethos U-65 microNPU
  - EdgeLock secure enclave
- 1GB/2GB 16-bit LPDDR4, 16GB eMMC
- WiFi a/b/g/n/ac/ax + BT 5.3 (Optional)



## Specifications

### Display and Graphic Support

- 1 x 720p60 LVDS (4-lane)
- 1 x 1080p60 MIPI-DSI (4-lane)
- 2D GPU

### Networking

- 2 x 10/100/1000Mbps Ethernet (one TSN)

### Camera

- 2 x MIPI CSI2 Serial Input (2-lane)

### Power

- 3.0V~5.25V DC  $\pm$  5%

### Power Consumption

- Max load 2.1W

### Operating Temperature

- 0°C ~ 70°C (Commercial)
- -40°C ~ 85°C (Industrial)

### Form Factor

- SMARC Specification v2.0/v2.1

### Dimension

- SMARC half size module, 82mm x 50mm

### Other I/O Interfaces

- 5 x USB (1 x USB 2.0 OTG, 4 USB 2.0 host)
- 2 x I2S
- 4 x I2C
- 2 x SPI
- 4 x UARTs (2 with CTS/RTS)
- 12 x GPIO
- 1 x SDIO
- 2 x CAN-FD
- Watchdog
- RTC

### Operating System

- Yocto Nanbield (Linux 6.6.3)
- Debian Bullseys



modularized  
design

low power

wide

temperature

extensive  
supports

cost

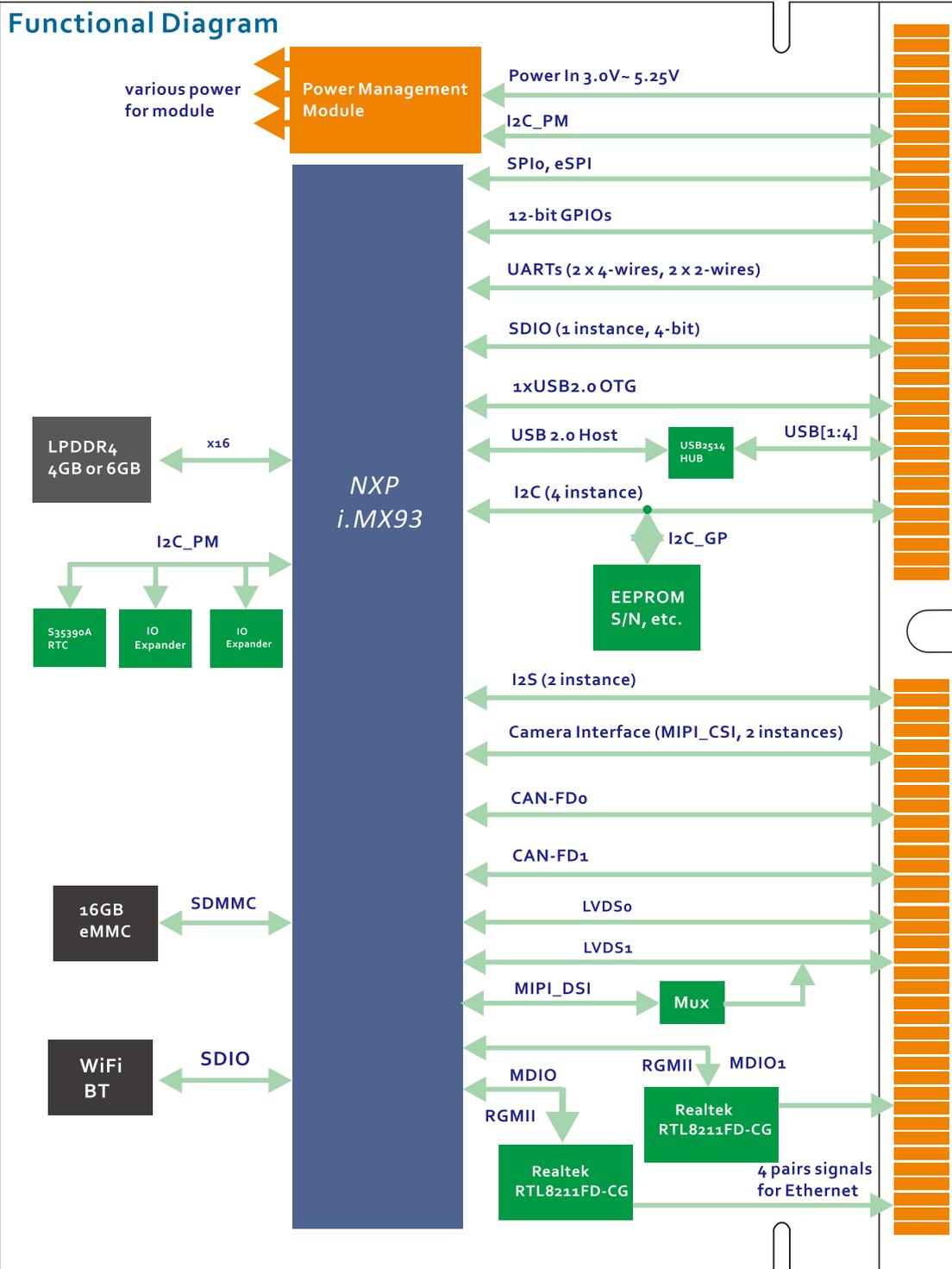
effective

high

performance

long

lifecycle



modularized design

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## SMARC 2.0 Evaluation Carrier

*Universal Development Board for all SMARC 2.0 Compliant Modules*

### Features

- SMARC 2.0 modules bring-up platform for s/w and h/w development
- SMARC 2.0 modules validation platform
- Customer evaluation platform
- Customer carrier design reference



### Ordering Information

SMARC-iMX93-XY-Z-W  
↑ ↑ ↑  
1 2 3

- 1: **1G** (1GB LPDDR4)  
**2G** (2GB LPDDR4)
- 2: **I** (Industrial Temp)
- 3: **W** (WiFi and BT)

### EVK-STD-CARRIER-S20

- SMARC 2.0 Evaluation Carrier and Accessories

\* Other configuration by request

### About Embedian

Embedian pioneers the concept of an extremely small computer-on-module and single board computers with full implementation of major operating systems.

Established in 2006, now we are the leading supplier in this industry.



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