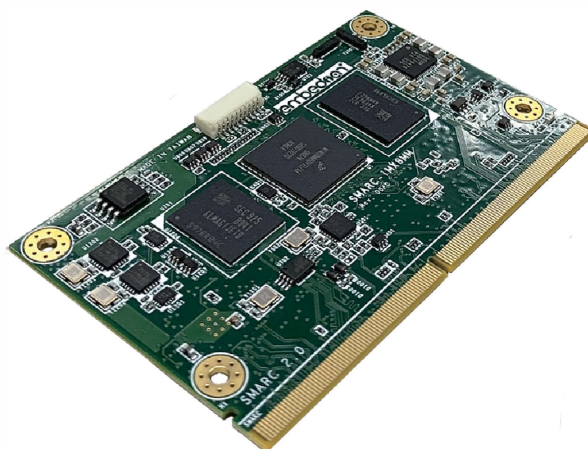


Features

- 1.8GHz quad-core ARM Cortex-A53 NXP i.MX8M Mini series Processor
- Real-time 400Mhz Cortex-M4 co-processor
- Up to 4GB LPDDR4-3200 memory, 16GB eMMC



Specifications

Display and video Support

- 1080p60 VP9 Profile 0, 2 (10-bit) decoder, HEVC/H.265 decoder, AVC/H.264 Baseline, Main, High decoder, VP8 decoder
- 1080p60 AVC/H.264 encoder, VP8 encoder
- Dual channel LVDS Display

Networking

- 10/100/1000Mbps Ethernet

High Speed Interfaces

- 1 x PCIe 2.0
- 1 x USB 2.0 OTG, 4 x USB 2.0 Host

Camera

- 1 x MIPI CSI2 Serial Input (4-LANE)

Power

- 3.0V ~ 5.25V DC \pm 5%

Form Factor

- SMARC Specifications v2.0

Dimension

- SMARC half size module, 82mm x 50mm

Other I/O Interfaces

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

Power Consumption

- Typical 2W

Operating Temperature

- Standard: 0°C ~ 85°C
- Industrial: -40°C ~ 85°C (For 4GB LPDDR4, -30°C ~ 85°C)

Operating System

- Yocto Sumo (Linux 4.14.98)
- Debian 9 Stretch (Linux 4.14.78)
- Android 9.0 (Linux 4.14.98)



modularized low power

wide

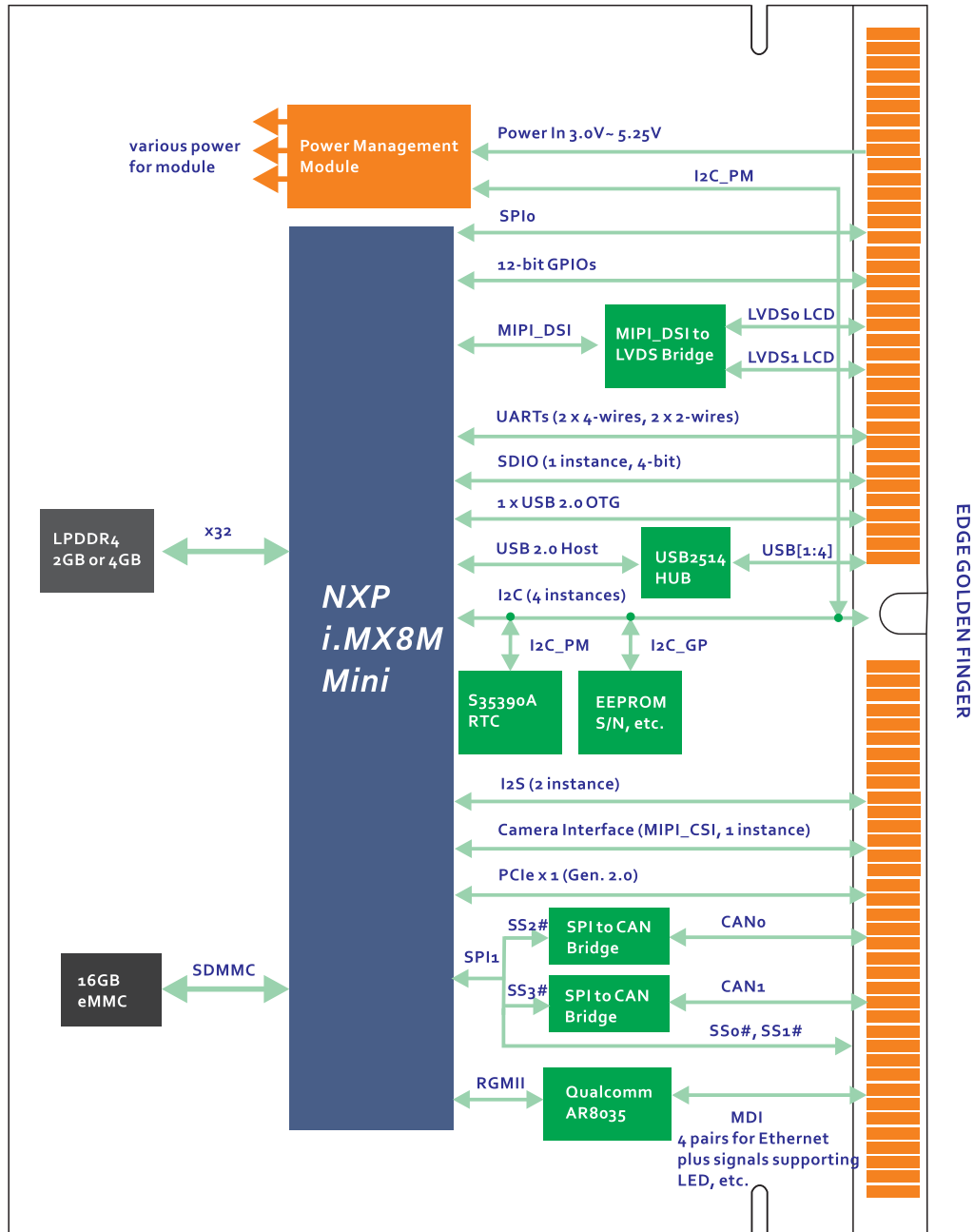
extensive

cost

high

long

Functional Diagram



modularized

low power

wide

extensive

cost

high

long