



Main Features

- Intel® Atom™ x5-E3940 processor Quad Core
- (SMARC™ Short Size)
- Onboard eMMC 32GB
- Onboard 4GB LPDDR4 memory non-ECC at 1600MHz.
- Displays : DP1.2/ HDMI 1.4b / Dual channel LVDS
- Onboard TPM2.0
- 2 x SATA 3.0
- 4 x PCIe x1 lanes.
- 2 x GbE LAN, 2 x USB3.2(Gen1)
- 2 x UART(RX/TX) ,
- HDA, WDT, GPIO 4in /4out,

Product Overview

SMARC form factor is the only computer-on-module form factor that truly is capable of supporting both ARM and x86 designs. With 314-pins on a high speed MXM3 connector, SMARC can fully cover both typical x86 interfaces as well as typical ARM type low level signals.

SMARC with Intel Atom® x5-E3940 processor ,Short Size Module dimension 82mm x 50mm, to support the IoT solutions , SMC250 comes with three processor variants with a TDP 9.5W, supports 2 x GbE LAN, 2 x USB3.2 Gen1, 6 x USB2.0, **2 x SATA 3.0**, 2 x UART(TX/RX), HD Audio, computing in applications spanning the retail, transport, industrial automation, and medical sectors.

Specifications

CPU / Chipset

- Intel Atom® x5-E3940 processor

Main Memory

- On board 4GB LPDDR4 memory, non-ECC at 1600MHz,

BIOS

- AMI (UEFI)

Display

- 1 x DP1.2 (resolution up to 4096x2160 @60Hz)
- 1 x HDMI 1.4b (resolution up to 3840x2160 @30Hz)
- 1 x Dual Channel 18/24bit LVDS (1920x1080 @60Hz).

Multi Display : DP + HDMI / DP + LVDS /HDMI + LVDS

MXM 3.0 Golden Finger

- 2 x USB 3.2 Gen1, 6 x USB2.0
- 2 x COM, GPIO 4in/4out, HDA, TPM2.0 .
- 1 x DP, 1 x HDMI1.4b, Dual channel LVDS, 4 x PCIe x1, 2 x SPI, 2 x I2C, 2 x SATA3.0 , 2 x GbE LAN , 2 x UART (TX/RX) .

Power Requirement

- +12VDC, +5VSB
- Support both AT and ATX power supply mode

Dimensions

- 82mm(L) x 50mm(W)

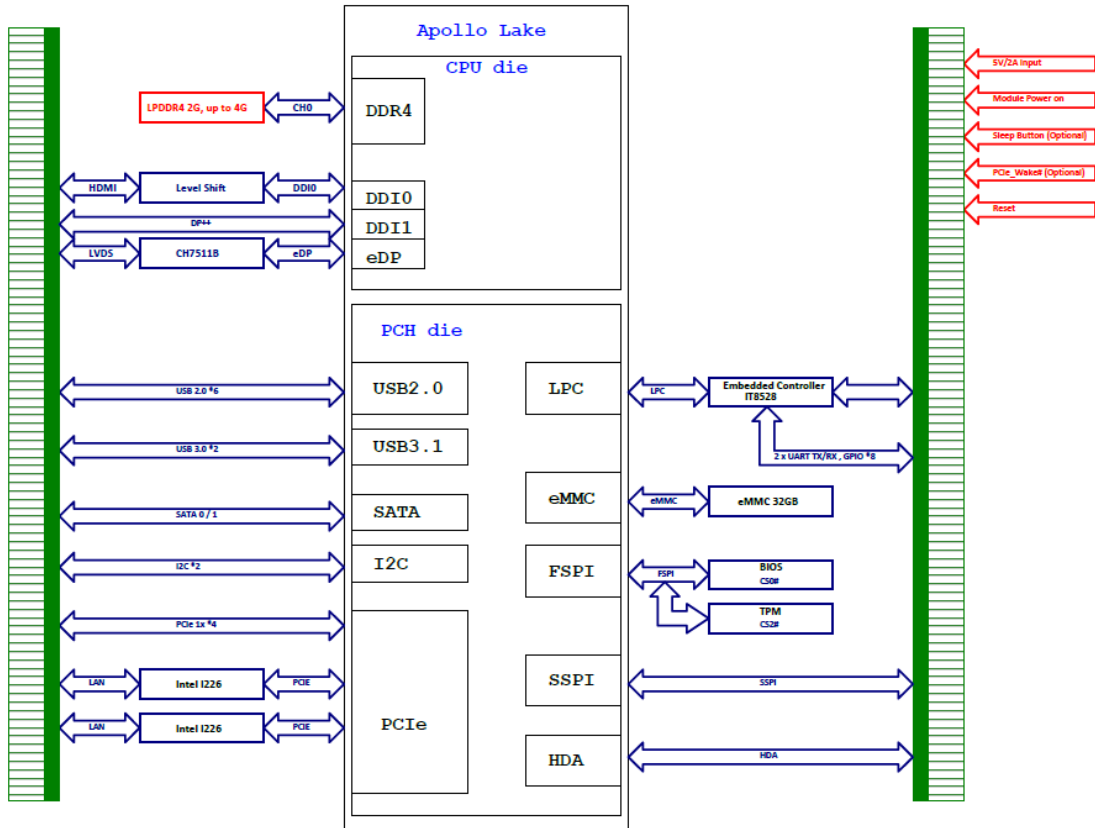
Environment

- Board level operation temperature : 0°C to 60°C
- Storage temperature : -40°C to 85°C
- Relative humidity:
10% to 90% (operating, non-condensing)
10% to 90% (non-operating, non-condensing)

Certifications

- Meet CE / FCC Class A

Black Diagram



Ordering Information

Barebone

SMC250 (P/N: 10E00025005X0)

- SMARC R2.1 pinout, small size with Intel Atom® E3940, quad core, 4GB LPDDR4, 32GB eMMC, 0°C to 60°C

Optional Accessories

- SMB-100 Carrier Board (P/N:10E00010000X0)
- Heat spreader Kit (P/N:10E00025006X0)
- Heat Sink Kit (P/N:10E00025007X0)
- COOLER Kit (P/N:10E00025008X0)