

Features

- Onboard NXP i.MX 6 Solo/Dual Lite/Dual/Quad CPU Up to 1.2GHz
- Wolfson WM8326 PMIC (A / B Version)
- MMPF0100 PMIC (C / D Version)
- DDR3L 512MB ~ 2GB
- eMMC 4GB ~ 64GB
- Broadcom BCM54610 10/100/1000
- Up to 3 PCIe x1, MLB150, 12 x GPIOs, SDIO, SATA, 3 x SPI, 3 x I2C, 1 x I2S, SPDIF, WDT, 2 x CAN, JTAG, MIPI



Specifications

System	
CPU	NXP i.MX 6 Solo 800M Hz NXP i.MX 6 Quad Core 1.0G Hz , Optional Quad core 1.2G Hz
System Memory	4 x DDR3-1600 128Mx16 FBGA96(9x14) MICRON 1G 4 x DDR3L-1600 128Mx16 FBGA96(9x14) MICRON 2G
Display Chipset	Dual Display HD 1080p Encode and Decode 2D and 3D Acceleration
Storage	eMMC 4GB ~ 64GB
OS Support	Android 4.4.2 Ubuntu 12.04 Yocto 1.5.1
I/O	
USB	2 x USB 2.0 Port (One OTG)
COM Port	2 x RX/TX (Ser1/3) 2 x RX/TX (Ser1/3) 2 x UART (Ser0/2)
Other	3 x PCIe x1 1 x MLB150 12 x GPIOs 1 x SDIO 1 x SATA eMMC 2 x SPI 3 x I2C 3 x I2S 1 x SPDIF 1 x WDT 2 x CAN 1 x JTAG

Mechanical & Environment	
Power Requirement	3V to 5.25V - Operates Directly from Single Level Lithium Ion Cells, or Fixed 3.3V or 5V Power Supplies
Operating Temperature	Commercial Temp (Standard): 0°C ~ 60°C (32°F ~ 140°F) Industrial Temp (Extended): -40°C ~ 85°C (-40°F ~ 185°F)
Storage Temp	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Form Factor	SMARC Module
Dimensions	(82mm x 50mm)

Ordering Info	
SMA-IMX6CQ	SMARC with NXP i.MX 6 1GHz Quad Core, 1GB DDR3L, 4GB eMMC, Standard Temp
SMA-IMX6CS	SMARC with NXP i.MX 6 1GHz Solo Core, 1GB DDR3L, 4GB eMMC, Standard Temp
SMA-X6QI2XH	SMARC with NXP i.MX 6 800MHz Quad Core, 1GB DDR3L, 4GB eMMC, Extended Temp
SMA-X6SI2XH	SMARC with NXP i.MX 6 800MHz Solo Core, 1GB DDR3L, 4GB eMMC, Extended Temp

* All product specifications and images are subject to change without notice. Last update: 2020/10/30

