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NXP-Freescale i.MX6

MicroSoM i1

Single Core SoM (System-On-Module)



Simple. Robust. Computing Solutions

SolidRun Ltd.

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Overview

The entry level SOM featuring a single core and 512 MByte of DRAM with a 1GHz processor.

MicroSoM i1 Highlighted Features:

- Based on NXP's iMX6 Single Core SoC
- 512MB DDR3
- Small size 47mm×30mm
- Variety of temperature grades:
 - Commercial 0°C...60°C
 - Extended -20°C...70°C
 - Industrial -40°C...85°C
 - Automotive -40°C...105°C
- Long longevity of 10 years
- Low power consumption

System Specifications

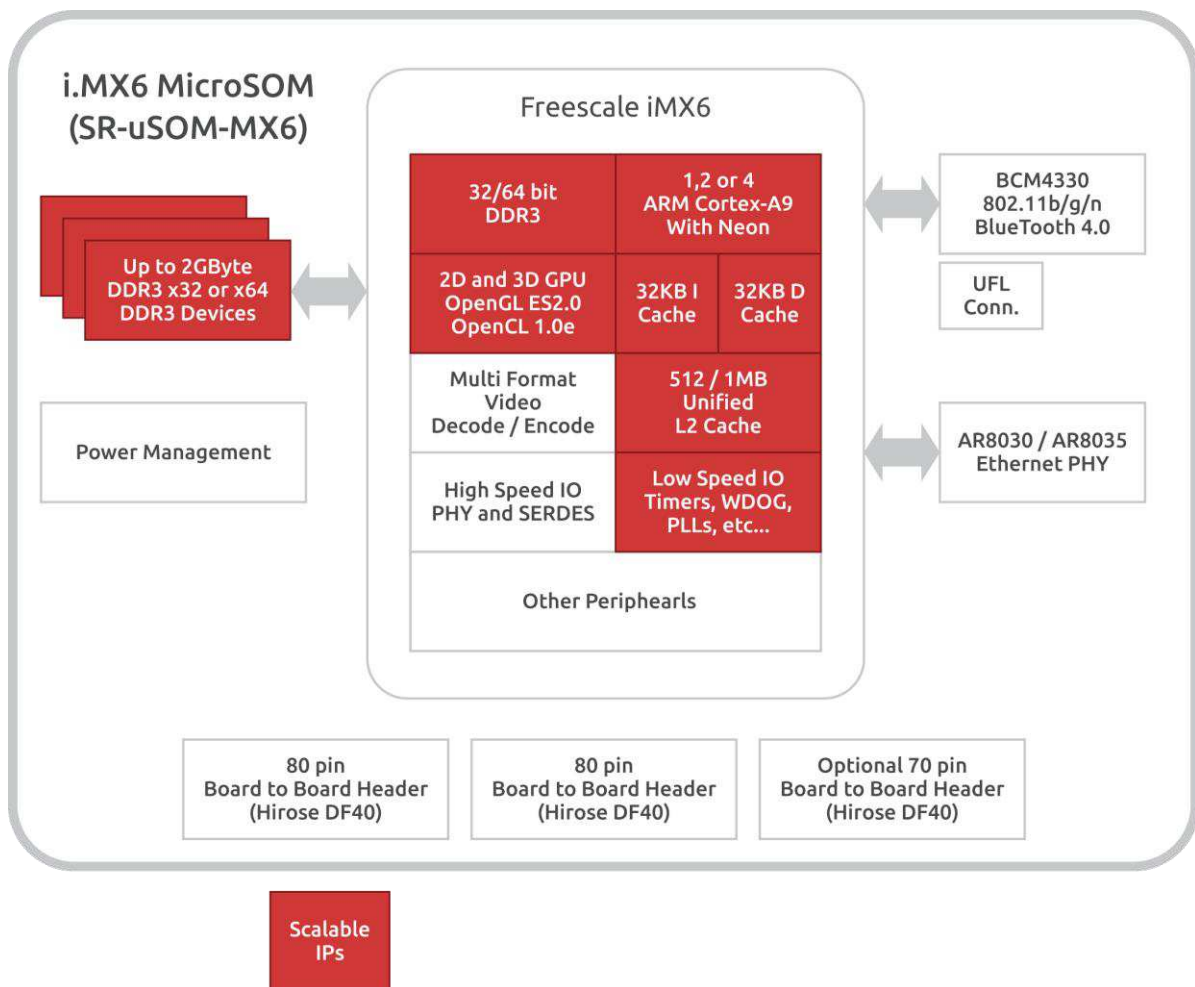
i.MX6 Solo	
Processor core	Single core ARM A9
Processor speed	1GHz (up to 1.2GHz)
Floating Point	VFPv3
SIMD	NEON
Graphics Processing Unit	Vivante GC880
3D GPU Support	OpenGL ES 1.1/2.0
HW Video Dec/Enc	Multi Format
Memory	32 bit, 512MB DDR3 @ 800Mbps
Wired Network	10/100/1000 Mbps*
Wireless Network	Optional
Bluetooth	Optional
Display Max resolution	HDMI: 1080p, LCD: WUXGA (1920×1200)
Display Interfaces	LVDS, HDMI 1.4, DSI, Parallel
Dual display support	✓
Supported External Storage	NOR-Flash, eMMC, SD/microSD, PCIeSSD
SD/MMC	3
USB 2.0 host	1
USB OTG	1
Serial ports	3
Digital audio serial interface	1
Camera interface port	2 Lane CSI
CAN bus	✓**
S-ATA	–
PCI-Express 2.0	×1
Second Ethernet	Via PCIe or USB NIC
I2C	3
SPI	3
PWM	4

i.MX6 Solo	
GPIO	75
JTAG	Test Point Header
S/PDIF Input	✓
S/PDIF Output	✓
1-Wire	1-Wire Transceiver on carrier board
Main Voltage	5V
IO Voltage	3.3V
SoM interface	Hirose DF40 connectors 1.5mm up to 4.0mm mating height
Dimensions (W×L)	47mm×30mm

(*) Note that due to internal i.MX6 buses the 1000Mbps interface speed is limited to 470Mbps.

(**) Will be supported on MicroSoM v1.4.

Block Diagram



Ordering Information

SKU Format
usomxyz-3c

Legend

	Meaning	Options	Description
usom	Product Family	none	Fixed parameter- MicroSoM Family
xx	MicroSoM Type	01	MicroSoM i1
		02	MicroSoM i2
		03	MicroSoM i2eX
		04	MicroSoM i4P
		05	MicroSoM i4x4
y	Temperature Range	none	Commercial Temperature Range
		e	Extended Temperature Range
		i	Industrial Temperature Range
		a	Automotive Temperature Range
z	WiFi/BT	none	No WiFi/BT
		w	Include WiFi/BT
3c	3 Board to Board Connectors	None	Fixed parameter

Available SKUs for MicroSoM i1

SKU	Description
usom01-3c	MicroSoM i1
usom01w-3c	MicroSoM i1 + WiFi/BT
usom01e-3c	MicroSom i1- Extended Temperature
usom01ew-3c	MicroSom i1- Extended Temperature + WiFi/BT-
usom01i-3c	MicroSom i1- Industrial Temperature
usom01iw-3c	MicroSom i1- Industrial Temperature + WiFi/BT
usom01a-3c	MicroSom i1- Automotive Temperature
usom01aw-3c	MicroSom i1- Automotive Temperature + WiFi/BT

Safety notice

- a. This device is to be used with Certified Power adaptor with output rated 5VDC, 3A. Power adapter must meet Limited power source (LPS) requirements.
- b. Power adapter must meet local safety standards and requirements based on product intended use.
- c. Power adapter must meet Operating environment conditions as specified above.

Disposal

Follow local regulations regarding disposal of the product. Dispose of your product in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited.

Help us protect the environment- recycle!

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