

# MicroSom i.MX6 Dual Lite

[imx6](#), [dual lite](#), [microsom](#), [C1000DL-D1024FE](#)







The MicroSOM i2 offers a dual-core implementation of Freescale i.MX6 Dual Lite system on chip (SoC) together with 1GB of RAM and basic chip power management and physical headers.

Note that there is a difference in physical hardware support and implementation between the dual-core “Dual Lite” and “Dual” implemented on the [MicroSOM i2eX](#), which is a separate product.

**Note:** Commercial organizations can order custom MicroSOMs in volume from Solid-Run that include additional combinations of capabilities not on the public market to enable custom products. Examples that may drive custom needs include CAN support, or custom headers for interfaces not otherwise supported.

## Hardware Specification

Description/Model	<a href="#">MicroSom i.MX6 Dual Lite</a>
<b>Core</b>	
<b>Processor Core</b>	Dual core ARM A9
<b>Processor Speed</b>	1GHz (up to 1.2GHz)
<b>Floating Point</b>	VFPv3
<b>SIMD</b>	NEON
<b>Graphics Processing Unit</b>	Vivante GC880
<b>HW Video Dec/Enc</b>	Multi- Format
<b>Memory</b>	64 bit, 1GB DDR3 @ 800Mbps
<b>Connectivity</b>	
<b>Wired Network</b>	10/100/1000 <sup>1</sup> Mbps
<b>Wireless Network</b>	Optional <sup>2</sup>
<b>Bluetooth</b>	Optional <sup>2</sup>
<b>I/O Expansion (IC-Connector on Carrier)</b>	
<b>Display Max Resolution</b>	HDMI: 1080p LCD: WUXGA(1920 x 1200)
<b>Display Interfaces</b>	LVDS, HDMI 1.4, DSI, Parallel
<b>Dual Display Support</b>	✓
<b>Supported External Storage</b>	NOR-Flash, eMMC, mSATA,SD-microSD, PCIe SSD
<b>SD/MMC</b>	3
<b>USB 2.0 Host</b>	1
<b>USB OTG</b>	1
<b>Serial Ports</b>	3

Description/Model	MicroSom i.MX6 Dual Lite
Digital Audio Serial Interface	1
Camera Interface Port	2 Lane CSI
CAN Bus	 <sup>4</sup>
S-ATA	
PCI-Express 2.0	x1
Second Ethernet	Via PCIe or USB NIC
I2C	3
SPI	3
PWM	4
GPIO	75
JTAG	Test Point Header
S/PDIF Input	
S/PDIF Output	
RTC	On Carrier
<b>Mechanical and Electronic Specifications</b>	
Temperature Range	Commercial Extended Industrial
Main Voltage	5V
IO Voltage	3.3V
SoM Interface	Hirose DF40 connectors 1.5mm up to 4.0mm mating height
Dimensions (W x L)	47mm x 30mm

<sup>1</sup> 1000Mbps link is limited to 470Mbps actual bandwidth due to internal chip bus limitation

<sup>2</sup> Wifi: 802.11 b/g/n - 2.4 Ghz / Bluetooth: V 4.0 (BCM4330)

<sup>4</sup> Supported by MicroSom Rev. v1.4 and upper

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Last update: **2015/11/12 03:31**

