

i.MX6 SOM

Up to 4 x Arm Cortex-A9 cores

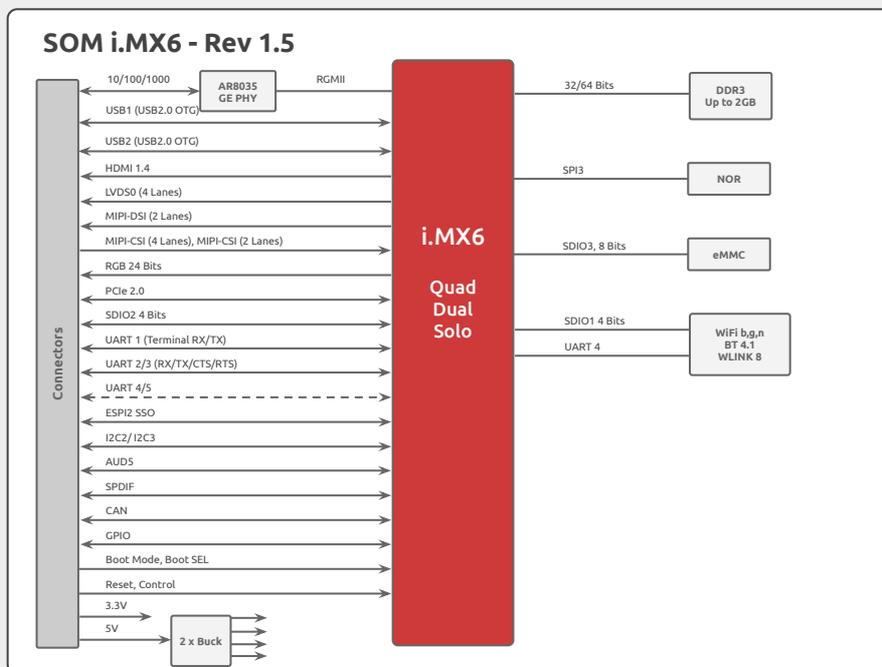
NXP i.MX 6 Processor System on Module



- Single to Quad-core 32-bit processors up to 1GHz
- Onboard Wifi 802.11 a/b/g/n with Bluetooth 4.2 and eMMC
- Robust and deployment proved with broad software support



		i.MX6 Quad	i.MX6 Dual	i.MX6 Dual Lite	i.MX6 Solo
CPU Details	CPU Name	NXP i.MX6 Quad	NXP i.MX6 Dual	NXP i.MX6 Dual Lite	NXP i.MX6 Solo
	CPU Type	4 x Cortex A9	2 x Cortex A9	2 x Cortex A9	1 x Cortex A9
	CPU Speed	1GHz Commercial 800MHz Industrial	1GHz Commercial 800MHz Industrial	1GHz Commercial 800MHz Industrial	1GHz Commercial 800MHz Industrial
	Floating Point	VFPv3	VFPv3	VFPv3	VFPv3
	SIMD	NEON	NEON	NEON	NEON
RAM	Memory & Storage	2GB DDR3	1GB DDR3	1GB DDR3	512MB DDR3
	Internal Storage	8GB eMMC	8GB eMMC	8GB eMMC	8GB eMMC
	External Storage Support	NOR-Flash SD PCIe-SSD	NOR-Flash SD PCIe-SSD	NOR-Flash SD PCIe-SSD	NOR-Flash SD PCIe-SSD
Networking	Ethernet	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
	Wireless	802.11 a/b/g/n + BT 4.2			
Multimedia	GPU	Vivante GC2000	Vivante GC2000	Vivante GC880	Vivante GC880
	3D GPU Support	OpenGL ES 1.1/2.0 OpenCL 1.1E	OpenGL ES 1.1/2.0 OpenCL 1.1E	OpenGL ES 1.1/2.0	OpenGL ES 1.1/2.0
	Video Decoder	1080p30	1080p30	1080p30	1080p30
	Video Encoder	1080p30	1080p30	1080p30	1080p30
	Display Interfaces	HDMI 1.4, LVDS, DSI, Parallel			
	Camera Interface	2 Lane CSI	2 Lane CSI	2 Lane CSI	2 Lane CSI
	S/PDIF Input / Output	1	1	1	1
Digital Audio Serial Interface	1	1	1	1	
Connectivity	USB 2.0	1 x Host, 1 x OTG			
	PCIe	1 (Gen 2.0)	1 (Gen 2.0)	1 (Gen 2.0)	1 (Gen 2.0)
	I2C	3	3	3	3
	SPI	3	3	3	3
	UART	3	3	3	3
	GPIO	75	75	75	75
	PWM	4	4	4	4
	SATA	1 (Gen 2.0)	1 (Gen 2.0)	-	-
	CAN	1	1	1	1
	SD/MMC	3	3	3	3
JTAG	Test point header	Test point header	Test point header	Test point header	
OS Support	Embedded Linux	Linux	Linux	Linux	Linux
Physical	Size	47 x 30 mm			
	Interface	3 x Hirose DF40 connectors			
Power	Main Voltage	5V	5V	5V	5V
	I/O Voltage	3.3V	3.3V	3.3V	3.3V
Environment	Temperature	Commercial: 0°C to 70°C Industrial: -40°C to 85°C Industrial Extended: -40°C to 105°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C Industrial Extended: -40°C to 105°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C Industrial Extended: -40°C to 105°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C Industrial Extended: -40°C to 105°C
	Humidity	Humidity (non-condensing): 10% – 90%			



Ordering Information

Available on Shop

	Description
Buy Now	SOM i.MX6 Solo Inc. WiFi/BT 512MB RAM 8GB eMMC Com.Temp R2.0 Unfused
	SOM i.MX6 Dual Inc. WiFi/BT 1GB RAM 8GB eMMC Com.Temp R2.0 Unfused
	SOM i.MX6 Quad Inc. WiFi/BT 2GB RAM 8GB eMMC Com.Temp R2.0 Unfused

- To choose your ideal configuration see our [Product Configurator Tool](#)

Accessories:

SKU	Description
HS00010K	i.MX6 Heatsink
AN00001	UFL WiFi antenna 2.4Ghz

Kits

	Description
Buy Now	SOM i.MX6 HummingBoard Inc. WiFi/BT 2GB 8GB eMMC Com.Temp Inc. Heatsink SD card Antenna Universal power adapter
	SOM i.MX6 Quad CuBox-i Inc. WiFi/BT 2GB RAM 8GB eMMC Com.Temp Inc. Enclosure -

For more information about the i.MX6 SOM Software/Hardware visit our:

[Developer Center](#)