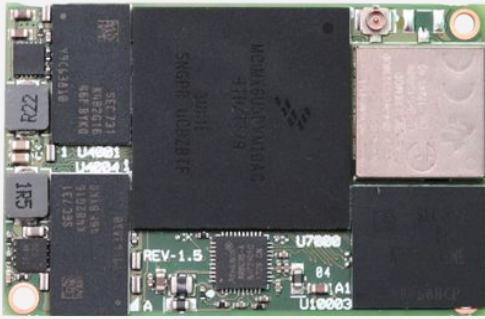


# i.MX6 SOM

Up to 4 x Arm Cortex-A9 cores

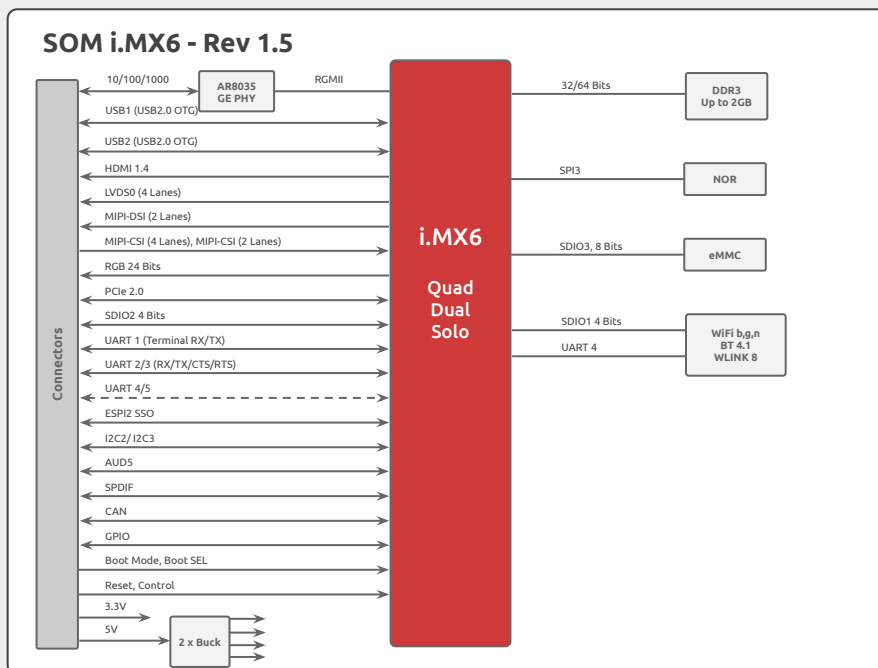
## NXP i.MX 6 Processor System on Module



- 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	802.11 a/b/g/n + BT 4.2	802.11 a/b/g/n + BT 4.2	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	HDMI 1.4, LVDS, DSI, Parallel	HDMI 1.4, LVDS, DSI, Parallel	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
Connectivity	Digital Audio Serial Interface	1	1	1	1
	USB 2.0	1 x Host, 1 x OTG	1 x Host, 1 x OTG	1 x Host, 1 x OTG	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	47 x 30 mm	47 x 30 mm	47 x 30 mm
	Interface	3 x Hirose DF40 connectors	3 x Hirose DF40 connectors	3 x Hirose DF40 connectors	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 Automotive: -40°C to 105°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C Automotive: -40°C to 105°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C Automotive: -40°C to 105°C	Commercial: 0°C to 70°C Industrial: -40°C to 85°C Automotive: -40°C to 105°C
	Humidity	Humidity (non-condensing): 10% – 90%	Humidity (non-condensing): 10% – 90%	Humidity (non-condensing): 10% – 90%	Humidity (non-condensing): 10% – 90%



## Ordering Information

### Available on Shop

SKU	Description
<a href="#">SRMX6SOW00D512E008V15C0</a>	SOM i.MX6 Solo   No WiFi/BT   512MB RAM   8GB eMMC   Com.Temp   R1.5   Unfused
<a href="#">SRMX6SOWT1D512E008V15C0</a>	SOM i.MX6 Solo   Inc. WiFi/BT   512MB RAM   8GB eMMC   Com.Temp   R1.5   Unfused
<a href="#">SRMX6DLW00D01GE008V15C0</a>	SOM i.MX6 Dual-lite   No WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R1.5   Unfused
<a href="#">SRMX6DLWT1D01GE008V15C0</a>	SOM i.MX6 Dual-lite   Inc. WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R1.5   Unfused
<a href="#">SRMX6DUWT1D01GE008V15A0</a>	SOM i.MX6 Dual   Inc. WiFi/BT   1GB RAM   8GB eMMC   Auto. Temp   R1.5   Unfused
<a href="#">SRMX6DUW00D01GE008V15C0</a>	SOM i.MX6 Dual   No WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R1.5   Unfused
<a href="#">SRMX6DUWT1D01GE008V15C0</a>	SOM i.MX6 Dual   Inc. WiFi/BT   1GB RAM   8GB eMMC   Com.Temp   R1.5   Unfused
<a href="#">SRMX6QDWT1D02GE008V15I0</a>	SOM i.MX6 Quad   Inc. WiFi/BT   2GB RAM   8GB eMMC   Ind. Temp   R1.5   Unfused
<a href="#">SRMX6QDW00D02GE008V15C0</a>	SOM i.MX6 Quad No WiFi/BT   2GB RAM   8GB eMMC   Com.Temp   R1.5   Unfused
<a href="#">SRMX6QDWT1D02GE008V15C0</a>	SOM i.MX6 Quad   Inc. WiFi/BT   2GB RAM   8GB eMMC   Com.Temp   R1.5   Unfused

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

### Accessories:

SKU	Description
<a href="#">HS00010K</a>	i.MX6 Heatsink
<a href="#">AN00001</a>	UFL WiFi antenna 2.4Ghz

Kits	
SKU	Description
<a href="#">MSMX6ODW00D02GE008E00CH</a>	HummingBoard Edge Windows 10 IoT Core   No WiFi/BT   2GB RAM   8GB eMMC   Com.Temp   R00   Inc. Heatsink
<a href="#">SRMX6SOW00D512GE008G00CH</a>	SOM i.MX6 Solo   HummingBoard Gate   No WiFi/BT   512MB RAM   8GB eMMC   Com. Temp   R00   Inc. Heatsink
<a href="#">SRMX6SOWT1D512GE008G00CH</a>	SOM i.MX6 Solo   HummingBoard Gate   Inc. WiFi/BT   512MB RAM   8GB eMMC   Com. Temp   R00   Inc. Heatsink
<a href="#">SRMX6DLW00D01GE008G00CE</a>	SOM i.MX6 Dual-Lite   HummingBoard Gate   No WiFi/BT   1GB RAM   8GB eMMC   Com. Temp   R00   Inc. Enclosure
<a href="#">SRMX6ODW00D02GE008G00CH</a>	SOM i.MX6 Quad   HummingBoard Gate   No WiFi/BT   2GB RAM   8GB eMMC   Com. Temp   R00   Inc. Heatsink
<a href="#">SRMX6ODW00D02GE008G00CE</a>	SOM i.MX6 Quad   HummingBoard Gate   No WiFi/BT   2GB RAM   8GB eMMC   Com. Temp   R00   Inc. Enclosure
<a href="#">SRMX6DLW00D01GE008E00CE</a>	SOM i.MX6 Dual-Lite   HummingBoard Edge   No WiFi/BT   1GB RAM   8GB eMMC   Com. Temp   R00   Inc. Enclosure
<a href="#">SRMX6ODWT1D02GE008E00CH</a>	SOM i.MX6 Quad   HummingBoard Edge   Inc. WiFi/BT   2GB RAM   8GB eMMC   Com. Temp   R00   Inc. Heatsink
<a href="#">SRMX6ODWT1D02GE008E00IH</a>	SOM i.MX6 Quad   HummingBoard Edge   Inc. WiFi/BT   2GB RAM   8GB eMMC   Ind. Temp   R00   Inc. Heatsink
<a href="#">SRMX6ODWT1D02GE008E00CE</a>	SOM i.MX6 Quad   HummingBoard Edge   Inc. WiFi/BT   2GB RAM   8GB eMMC   Com. Temp   R00   Inc. Enclosure
<a href="#">SRMX6ODWT1D02GE008E00IE</a>	SOM i.MX6 Quad   HummingBoard Edge   Inc. WiFi/BT   2GB RAM   8GB eMMC   Ind. Temp   R00   Inc. Enclosure
<a href="#">SRMX6DLWT1D01GE008C00IE</a>	SOM i.MX6 Quad   HummingBoard CBI   Inc. WiFi/BT   1GB RAM   8GB eMMC   Ind. Temp   R00   Inc. Enclosure
<a href="#">SRMX6ODWT1D02GE008C00IE</a>	SOM i.MX6 Dual-Lite   HummingBoard CBI   Inc. WiFi/BT   2GB RAM   8GB eMMC   Ind. Temp   R00   Inc. Enclosure
<a href="#">SRMX6ODWT1D02GE008X00CE</a>	SOM i.MX6 Quad   CuBox-i   Inc. WiFi/BT   2GB RAM   8GB eMMC   Com. Temp   R00   Inc. Enclosure

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

[Developer Center](#)