

i.MX6 SOM

Up to 4 x Arm Cortex-A9 cores

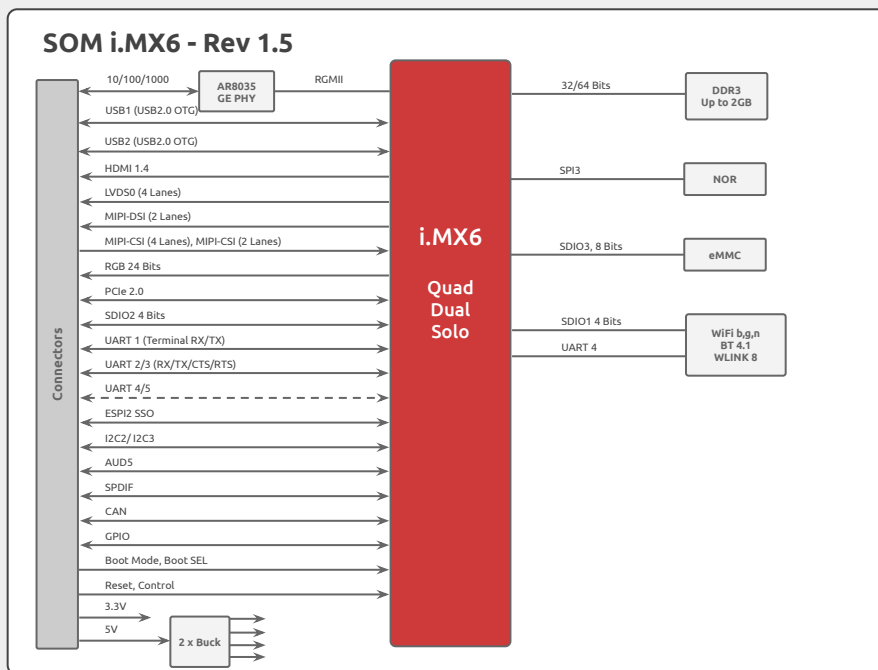
NXP i.MX 6 Processor System on Module



- 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
Digital Audio Serial Interface	1	1	1	1	
Connectivity	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 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%	Humidity (non-condensing): 10% – 90%	Humidity (non-condensing): 10% – 90%	Humidity (non-condensing): 10% – 90%



Ordering Information

Available on Shop

SKU	Description
SRMX6SOW00D512E008V15C0	SOM i.MX6 Solo No WiFi/BT 512MB RAM 8GB eMMC Com.Temp R1.5 Unfused
SRMX6SOWT1D512E008V15C0	SOM i.MX6 Solo Inc. WiFi/BT 512MB RAM 8GB eMMC Com.Temp R1.5 Unfused
SRMX6DLW00D01GE008V15C0	SOM i.MX6 Dual-lite No WiFi/BT 1GB RAM 8GB eMMC Com.Temp R1.5 Unfused
SRMX6DLWT1D01GE008V15C0	SOM i.MX6 Dual-lite Inc. WiFi/BT 1GB RAM 8GB eMMC Com.Temp R1.5 Unfused
SRMX6DUW00D01GE008V15C0	SOM i.MX6 Dual No WiFi/BT 1GB RAM 8GB eMMC Com.Temp R1.5 Unfused
SRMX6DUWT1D01GE008V15C0	SOM i.MX6 Dual Inc. WiFi/BT 1GB RAM 8GB eMMC Com.Temp R1.5 Unfused
SRMX6QDWT1D02GE008V15I0	SOM i.MX6 Quad Inc. WiFi/BT 2GB RAM 8GB eMMC Ind. Temp R1.5 Unfused
SRMX6QDW00D02GE008V15C0	SOM i.MX6 Quad No WiFi/BT 2GB RAM 8GB eMMC Com.Temp R1.5 Unfused
SRMX6QDWT1D02GE008V15C0	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
HS00010K	i.MX6 Heatsink
AN00001	UFL WiFi antenna 2.4Ghz

Kits

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