

CM-i.MX6Q

i.MX6 based System-on-Module



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The CM-i.MX6Q is based on Freescale's next generation, high-performance, power-efficient, consumer multimedia applications processor i.MX6Q.

The i.MX6Q encompasses a quad-core platform running up to 1.2 GHz with 1 MB of L2 cache and 64-bit DDR3 support. Integrated FlexCAN, PCI Express® and SATA-2 provide excellent connectivity, while integration of LVDS, MIPI display port, MIPI camera port and HDMI v1.4 makes it an ideal platform for leading-edge consumer, automotive and industrial multimedia applications.

The System-on-Module is available for both, commercial and industrial temperature range. It addresses 2 GByte DDR3-SDRAM, has an on-board eMMC flash of 4 GByte and an additional SPI NOR-flash of 2 MByte.

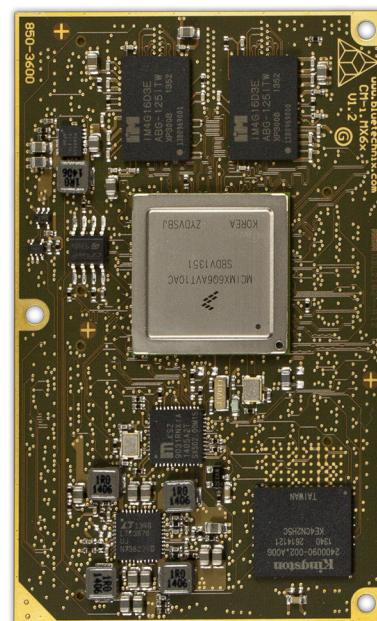
Highlights

- » Powerful i.MX6Q Quad Core SoC
- » 4 x ARM® Cortex™-A9 up to 1.2 GHz
- » 2 GByte DDR3-SDRAM
- » 4 GByte eMMC Flash
- » GBit Ethernet physical on-board
- » Industrial (-40 to +85°C) and Commercial (0 to +70°C)

Ordering Information

Order No.	Info
100-4126-1	i.MX6Q Development Starter Package
100-1480-1	CM-i.MX6Q Industrial
100-1481-1	CM-i.MX6Q

50mm / 1.97 inch



80mm / 3.15 inch

CM-i.MX6Q Industrial

Applications

- » Automotive
- » Consumer
- » Industrial
- » Medical/Health Care
- » Networking

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i.MX6Q Facts

The i.MX 6Quad family encompasses a quad-core platform running up to 1.2 GHz with 1 MB of L2 cache and 64-bit DDR3 or 2-ch., 32-bit LP-DDR2 support. Integrated FlexCAN, PCI Express® and SATA-2 provide excellent connectivity, while integration of LVDS, MIPI display port, MIPI camera port and HDMI v1.4.

www.bluetechnix.com/goto/cm-i.mx6

Feature Overview

SoC	Quad Core Freescale i.MX6Q ARM® Cortex™-A9	
Clock*	up to 4 x 1.2 GHz	
RAM*	2 GByte DDR3-SDRAM	
Flash*	4 GByte eMMC / 2 MByte NOR	
Interfaces	PCIe 2.0	1
	FlexCAN	2
	CSI (16Bit) / MIPI CSI	1 / 4 lanes
	S/PDIF / ESAI, I²S/SSI	1 / 2
	Ethernet	10/100/1000 Mbit Ethernet PHY
	HDMI 1.4	1
	LVDS	2
	Parallel Display Port	1 (24-bit)
	MIPI DSI	2 lanes
	SATA II	1
	SDIO	2 (2x 8-bit)
	UART / I²C / SPI	4 / 2 / 2
	USB 2.0	1 x OTG / 1 x Host
	PWM	4
JTAG / ETM Trace Port	1 / 1	
Power Supply	2.7V - 5.5V	
Versions*	Industrial -40 to +85 °C Commercial 0 to +70 °C	
Dimensions	80 x 50mm	

* Depends on version - see ordering information

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