CM-i.MX6D

i.MX6 based System-on-Module

The CM-i.MX6D is based on Freescale's next generation, high-performance, power-efficient, consumer multimedia applications processor i.MX6D.

The i.MX6D encompasses a dual-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.
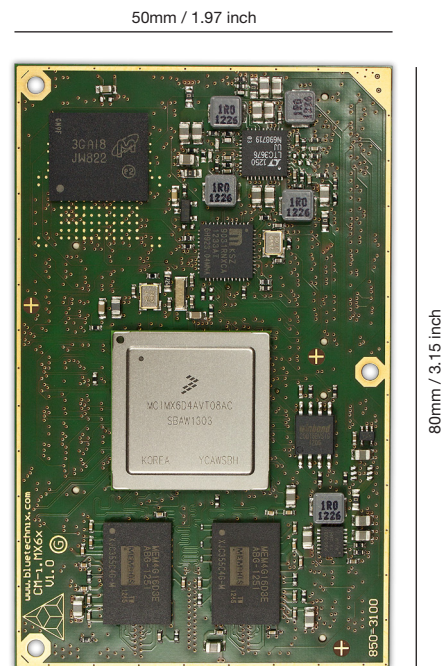
The System-on-Module is available for both, commercial and industrial temperature range. It addresses 2 GByte DDR3-SDRAM, has an on-board eMMC flash of 4 GByte and an additional SPI NOR-flash of 2 MByte.

50mm / 1.97 inch

80mm / 3.15 inch

CM-i.MX6D Industrial

Highlights

» **Powerful i.MX6Q Dual Core SoC**
» **2 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)**

Applications

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

Ordering Information

Order No.	Info
100-4126-1	i.MX6Q Development Starter Package
100-1482-1	CM-i.MX6D Industrial
100-1483-1	CM-i.MX6D

CM-i.MX6D

i.MX6 based System-on-Module

i.MX6D Facts

The i.MX6 Dual family provides dual cores running up to 1.2 GHz with 1 MB of L2 cache and 64-bit DDR3 or 2-ch., 32-bit LPDDR2 support. Integrated FlexCAN, MLB busses, PCI Express® and SATA-2 provide excellent connectivity, while integration of LVDS, MIPI display port, MIPI camera port and HDMI v1.4, the i.MX6 Dual provides a scalable solution for consumer, automotive and industrial applications.

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

Feature Overview

SoC		Dual Core Freescale i.MX6D ARM® Cortex™-A9
Clock *		up to 2 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