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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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CM-i.MX53

i.MX based System-on-Module



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The Core Module CM-i.MX53 is based on Freescale's next generation, high-performance, power-efficient, consumer multimedia applications processor i.MX53. This processor features OpenGL® ES 2.0 and OpenVG™ 1.1 hardware accelerators, a multi-format HD1080p video decoder and a HD720p video encoder hardware engine, dual display capability, a SATA controller, IEEE1588 time-stamping and numerous serial interfaces (SDIO, SPI, I2C, UART). Further features are integrated security solutions, USB 2.0 controllers, Ethernet controller and a camera input (CSI).

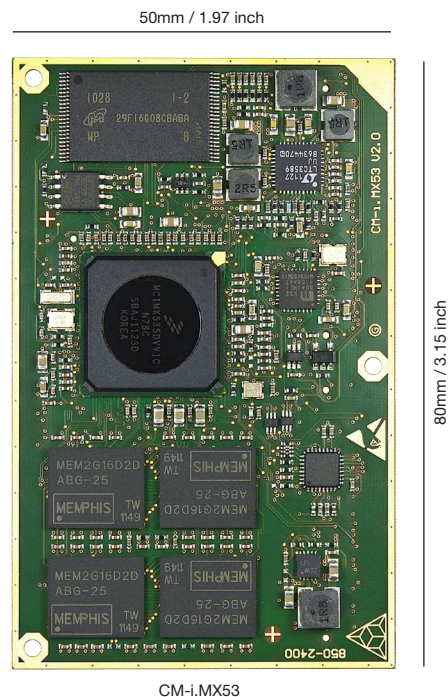
The Core Module is available for both, commercial and industrial temperature range. It addresses 1GByte DDR2-SDRAM, has an onboard NAND-flash of 2GByte and an additional SPI NOR-flash of 4MByte.

Highlights

- » Powerful i.MX53 SoC
- » ARM® Cortex™-A8 up to 1000MHz
- » 1 GByte DDR2-SDRAM
- » 2 GByte NAND Flash
- » Ethernet physical (10/100 Mbit) on-board
- » Stereo audio codec on-board
- » Industrial Core Module (-40 to +85°C)

Ordering Information

Order No.	Info
100-4120	i.MX53 Development Starter Package
100-4170-2	CM-i.MX53 Industrial
100-4171-1	CM-i.MX53



Applications

- » Human-Machine-Interface
- » Imaging and Consumer Multimedia
- » Set Top Boxes
- » Industrial Applications

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i.MX53 Facts

The state of the art i.MX53 SoC in combination with the outstanding integration of several peripheral controllers, memory and voltage control, turn the CM-i.MX53 into a high-performance embedded platform for your future applications.

Feature Overview

SoC	Freescall i.MX53 ARM® Cortex™-A8	
CLOCK*	1 GHz / 800 MHz	
RAM*	1 GByte DDR2-SDRAM	
FLASH*	4 MByte NOR / 2 GByte NAND	
INTERFACES	AUDIO	Headphones, Mic., Line In / Out
	CAN**	1
	CSI (10Bit)	1
	SPI / OWIRE	2 / 1
	ETHERNET	1x10/100 MBit Ethernet PHY
	LVDS	2
	PARALLEL DISPLAY PORT	2 (18-bits / 24-bits)
	SATA	1 up to 1.5 Gbps
	SD-INTERFACE	2 (1x 4-bit, 1x 8-bit)
	I²C	2
	UART	3
	USB 2.0	2 (1 x OTG / 1 x Host)
	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

** industrial version only

Further information at
<http://www.bluetechnix.com/goto/cm-i.mx53>

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