

# 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).

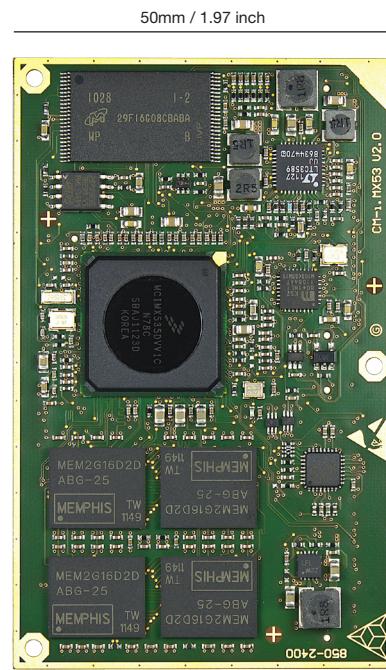
The Core Module is available for both, commercial and industrial temperature range. It addresses 1GByte DDR2-SDRAM, has an onboard NAND-flash of 2GByte and an additional SPI NOR-flash of 4MByte.

## 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

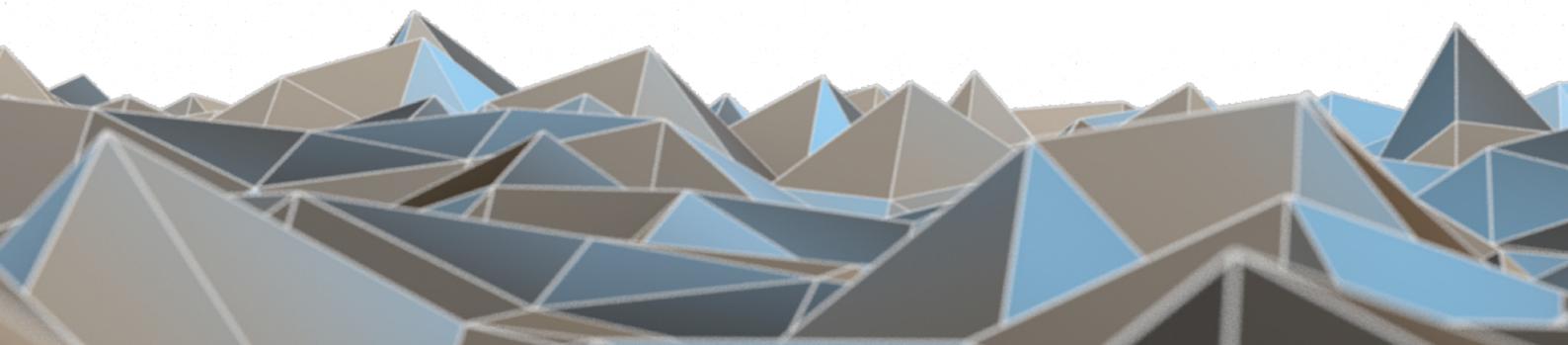
Order No.	Info
100-4120	i.MX53 Development Starter Package
100-4170-2	CM-i.MX53 Industrial
100-4171-1	CM-i.MX53



80mm / 3.15 inch

## 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

<b>SoC</b>	Freescale i.MX53 ARM® Cortex™-A8
<b>CLOCK*</b>	1 GHz / 800 MHz
<b>RAM *</b>	1 GByte DDR2-SDRAM
<b>FLASH *</b>	4 MByte NOR / 2 GByte NAND
<b>INTERFACES</b>	<b>AUDIO</b> Headphones, Mic., Line In / Out
	<b>CAN **</b> 1
	<b>CSI (10Bit)</b> 1
	<b>SPI / OWIRE</b> 2 / 1
	<b>ETHERNET</b> 1x10/100 MBit Ethernet PHY
	<b>LVDS</b> 2
	<b>PARALLEL DISPLAY PORT</b> 2 (18-bits / 24-bits)
	<b>SATA</b> 1 up to 1.5 Gbps
	<b>SD-INTERFACE</b> 2 (1x 4-bit, 1x 8-bit)
	<b>I²C</b> 2
	<b>UART</b> 3
	<b>USB 2.0</b> 2 (1 x OTG / 1 x Host)
<b>POWER SUPPLY</b>	2.7V - 5.5V
<b>VERSIONS</b>	Industrial -40 to +85 °C Commercial 0 to +70 °C
<b>DIMENSIONS</b>	80 x 50mm

\*depends on version - see ordering information

\*\* industrial version only

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

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