

# Qseven-i.MX537

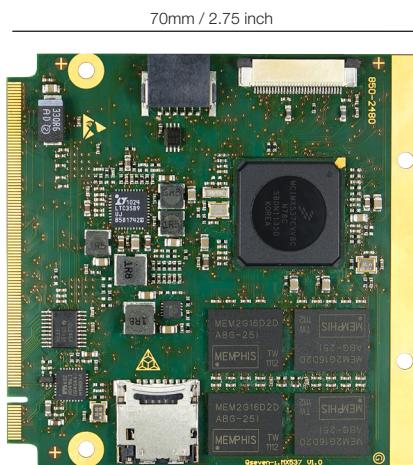
Qseven® compliant i.MX53 Module



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The Qseven® compliant Module Qseven-i.MX537 is based on Freescale's next generation, high-performance, power-efficient, consumer multimedia applications processor i.MX537. 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, a SATA controller and numerous serial interfaces. Further features are integrated security solutions, USB 2.0 controllers and an Ethernet controller.

The Qseven® module is available for the industrial temperature range (-40 to +85°C). It addresses 1GByte DDR2-SDRAM, has an on-board NAND-flash of 2GByte and an additional SPI NOR-flash of 4MByte.



70mm / 2.75 inch

## Highlights

- » Qseven® Rev. 1.2 compliant
- » Designed for industrial applications
- » Powerful Cortex™-A8 core
- » 1 GByte DDR2-SDRAM
- » 2 GByte NAND Flash

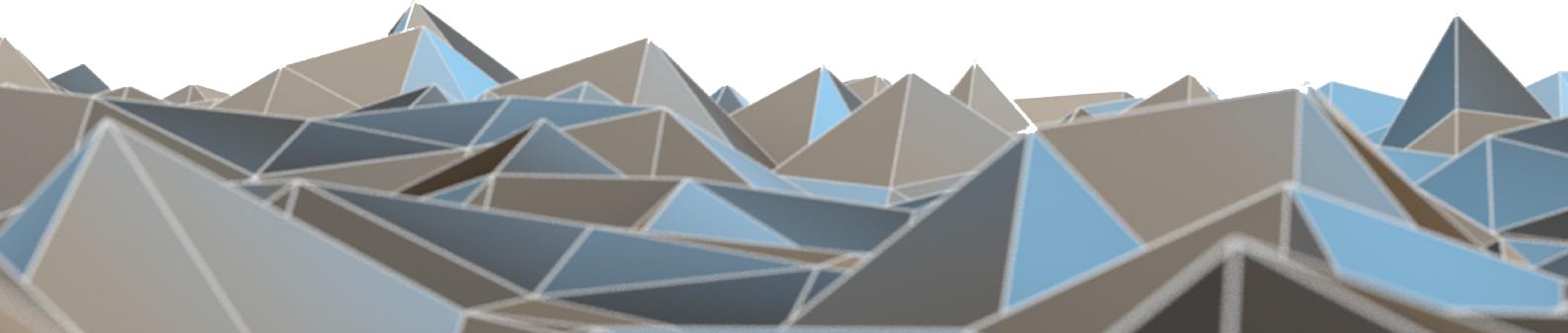
The state of the art i.MX53 SoC in combination with the outstanding integration of several peripheral controllers, memory and voltage control, turn the Qseven-i.MX537 into a high-performance embedded platform for your future applications.

## Applications

- » Industrial Applications
- » Human-Machine-Interface
- » Medical Devices
- » Home automation
- » Imaging and Consumer Multimedia
- » Set Top Boxes

## Ordering Information

Order No.	Info
100-1500-1	Qseven-i.MX537 Module



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## Qseven® Facts

The Qseven concept is an off-the-shelf, multi vendor, Computer-On-Module that integrates all the core components of a common PC and is mounted onto an application specific carrier board. Qseven modules have a standardized form factor of 70mm x 70mm and have specified pinouts based on the high speed MXM system connector that has a standardized pinout regardless of the vendor.

## Feature Overview

<b>PROCESSOR</b>	Freescale i.MX537 ARM® Cortex™-A8
<b>CLOCK</b>	800MHz
<b>RAM</b>	1GByte DDR2-800 SDRAM
<b>FLASH DISK</b>	4MByte NOR / 2GByte NAND
<b>Qseven® INTERFACES</b>	<b>Serial ATA Channels</b> 1
	<b>USB 2.0 ports</b> 7 Hosts + 1 OTG
	<b>LVDS Channels*</b> 2
	<b>Display Port / TMDS / SDVO</b> 0 / 1 / 0
	<b>HDA</b> 1
	<b>Ethernet 10/100 Mbit</b> 1
	<b>I²C / SPI / CAN</b> 2 / 1 / 1
	<b>SDIO</b> 1
	<b>JTAG</b> 1
	<b>Power Button / Reset Button</b> 1 / 1
	<b>LID Button / Sleep Button</b> 1 / 1
	<b>Wake / Battery low alarm</b> 1 / 1
	<b>Thermal control</b> 1
	<b>FAN control</b> 1
<b>ADDITIONAL</b>	<b>Sleep modes</b> Various sleep modes available
	<b>Image sensor interface</b> 1 x BLT-ISM-Connector for ISM
	<b>Micro SD card slot</b> 1 x on-board
	<b>Debug Interfaces</b> 1 x UART, 1 x SPI
<b>VERSIONS</b>	Industrial -40 to +85 °C
<b>DIMENSIONS</b>	70 x 70mm

\* only one LVDS available when using TMDS

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