

Qseven-i.MX537

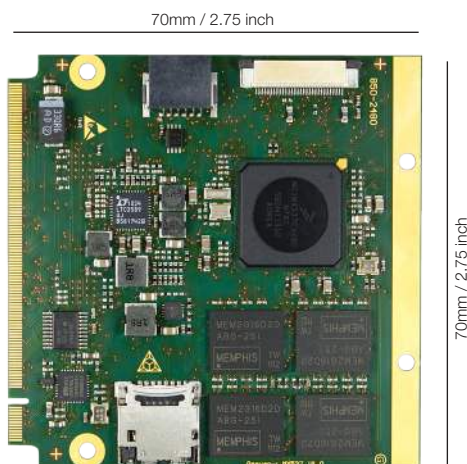
Qseven® compliant i.MX53 Module



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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.



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

Qseven-i.MX537

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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

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

* only one LVDS available when using TMDS

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