

System On Module RainboW-G11M-MXM i.MX53 MXM SOM Module



Rainbow G11M is a cost effective automotive grade SOM module which integrates the latest Freescale's i.MX536 CPU, onboard DDR2 RAM, Micro SD and eMMC Flash. The module optimized for both performance and power to meet demands of high-end advanced embedded requirements. The i.MX53's full HD capability with sophisticated video processing and the 2D/3D graphic accelerator provide the rich multimedia experience.

This highly integrated module comes with optimized drivers and software packages for various operating systems and suitable for various embedded applications including Industrial, Automotive and Medical

APPLICATIONS : Automotive IVI, Rear Seat Entertainment, Instrument Cluster, Portable Navigation, Telematics, Industrial HMI, Telehealth, POS Terminal, Security Systems, High-end PDAs, Digital Signage.

iW-RainboW-G11M-MXM HIGHLIGHTS

- 800MHz to 1.2GHz Core Operation
- 1080p HD decode, 720p HD encode
- 2D,3D Hardware Graphics Accelerators
- Open GL, Open VG Support
- Automotive temperature grade support*
- Power efficient
- Quick time to market

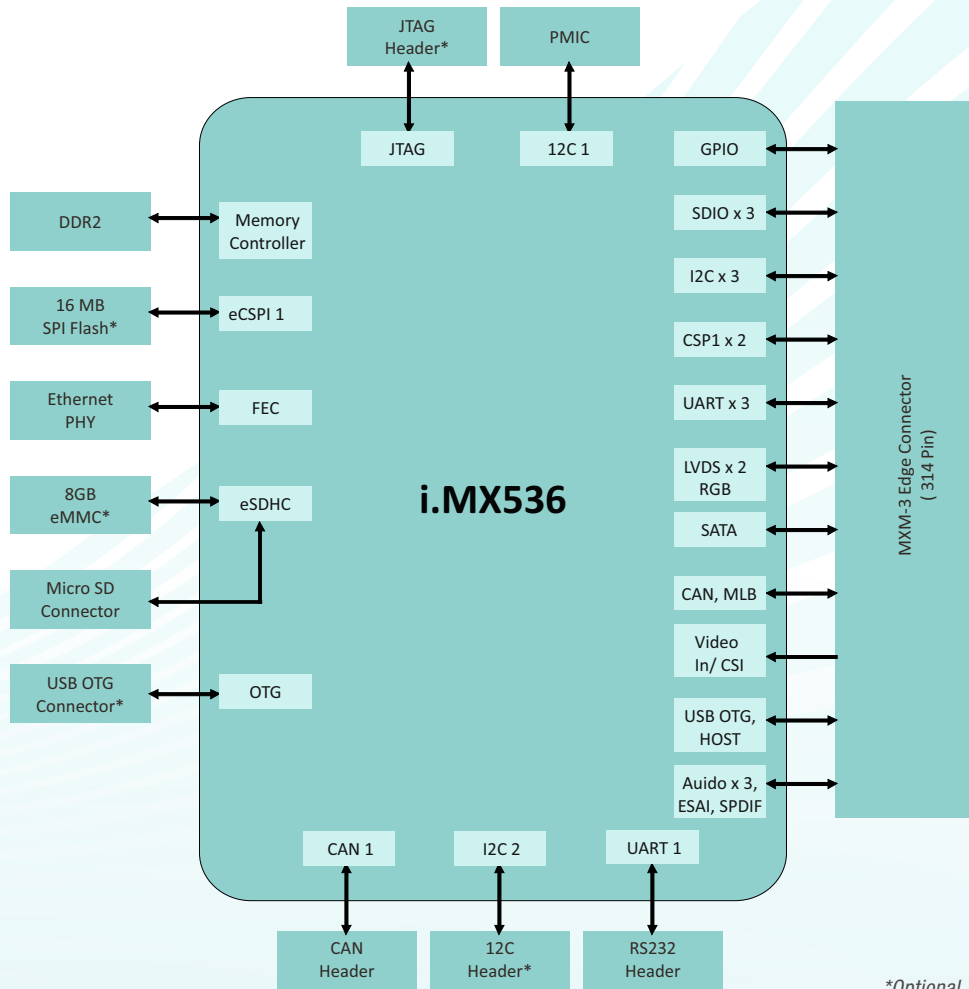
SPECIFICATIONS

CPU	Freescale's i.MX536 @ 800 MHz	MXM-3 Expansion Connector	UART - 3 Ports
RAM	512MB DDR2 RAM (Expandable to 1GB)	I2C - 2 Ports	SDIO - 3 Ports
Storage	2GB MicroSD card	SPI – 2 Ports	SPI – 2 Ports
	16MB SPI Flash*	Audio – 3 Ports	LVDS Channel – 2 Ports
	8GB eMMC Flash*	SATA – 1 Port	SATA – 1 Port
On-board Peripherals	Ethernet PHY	CAN – 1 Port	CAN – 1 Port
	RS232 PHY	Ethernet – 1 Port	Ethernet – 1 Port
Headers & Switches	Boot Mode Switches	GPIO – 16 Nos	GPIO – 16 Nos
	JTAG Header*	MLB, ESAI, SPDIF Ports	MLB, ESAI, SPDIF Ports
	I2C, CAN Headers*	Power Input	Power Input
	Reset button	5V, DC Input	5V, DC Input
Form factor	85mm x 85mm	Temperature	Temperature
		Industrial Grade -40°C to +85°C	Industrial Grade -40°C to +85°C
		OS Support**	OS Support**
		Linux 2.6.35, Android 2.3, WEC7*, QNX*	Linux 2.6.35, Android 2.3, WEC7*, QNX*

*Optional

** Note: Device drivers provided are for specific interface chipsets, which are used in iWave's Carrier board.

i.MX536 SOM BLOCK DIAGRAM



*Optional

OS SUPPORT

Linux 2.6.35
Android 2.3
WEC7*
QNX *

*Optional

DELIVERABLES

RainboW-G11M Module
Board Support Packages
User manual

OPTIONAL KITS

RainboW-G11D-MXM
(i.MX53 Development Platform)

CUSTOM DEVELOPMENT

Custom SOM/ Carrier development
BSP Development/ OS Porting
Design Review & Support

iWave Systems Technologies, established in 1999, focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA. The company designs and develops cutting edge products and solutions. iWave has been an innovator in the development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms. iWave's expertise has brought out multiple SOMs based on ARM, Freescale, Intel Atom, Marvell and TI Processors.

iWave Systems has won the confidence of its customers over the years by being a reliable partner in developing innovative products. Our engineers combine outstanding System design experience to deliver Quality Solutions. iWave specializes across Industrial, Automotive and Medical domains. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products. iWave is a Windows embedded Silver partner and a winner of the Partner Excellence Award.

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best of breed specification. The registered trademarks are proprietary of their respective owners.

*Optional items not included in the standard deliverables

Ordering the i.MX536 SOM

The module can be ordered online from the iWave Website
<http://www.iwavesystems.com/webforms>

iWave Systems Tech. Pvt. Ltd.,

7/B, 29th Main, BTM Layout 2nd Stage,
Bangalore-560076,
India.
Ph:+91-80-26683700, 26786245
Email: mktg@iwavesystems.com
www.iwavesystems.com

iWave Japan, Inc.

8F-B, Kannai Sumiyoshi Building,
3-29, Sumiyoshi-cho, Naka-ku,
Yokohama, Kanagawa, Japan.
Ph: +81-45-227-7626
Email: info@iwavejapan.co.jp
www.iwavejapan.co.jp