

iWave Systems Technologies Pvt. Ltd., a leading innovative Embedded Product Engineering Services company headquartered in Bangalore launched i.MX508 QSB - Industry's first low cost development platform based on Freescale's i.MX50x processor. It is a highly integrated development platform for increased performance aiming at eReaders, Industrial Kiosk, Home/ Industrial/ Office-Automation Portable Medical Devices, Appliance Control applications.

The i.MX508 QSB with its integrated features on-chip EPD/ LCD Controller, Ethernet, Dual USB, Dual SD, USB Device, VGA, Audio IN/ OUT & Serial interfaces priced at \$199, enables developers to quickly prototype their application needs around i.MX508 processor and optimize the development effort and time to market of their products.

The i.MX508 processor is a system-on-chip (SoC) that incorporates high performance 800MHz ARM® Cortex™-A8 processor and Electronic Paper Display (EPD) Controller.

**APPLICATIONS** : Industrial, Automotive, Medical, General Embedded.

## iW-RainboW-G13S HIGHLIGHTS

Cost effective, open source, multipurpose platform.

The built-in EPD/LCD controller enhances the compactness of eBook Readers

ARM Cortex-A8 with lower power consumption eliminates the need for heat sink and helps ID developers to design silent, air-tight enclosed solutions

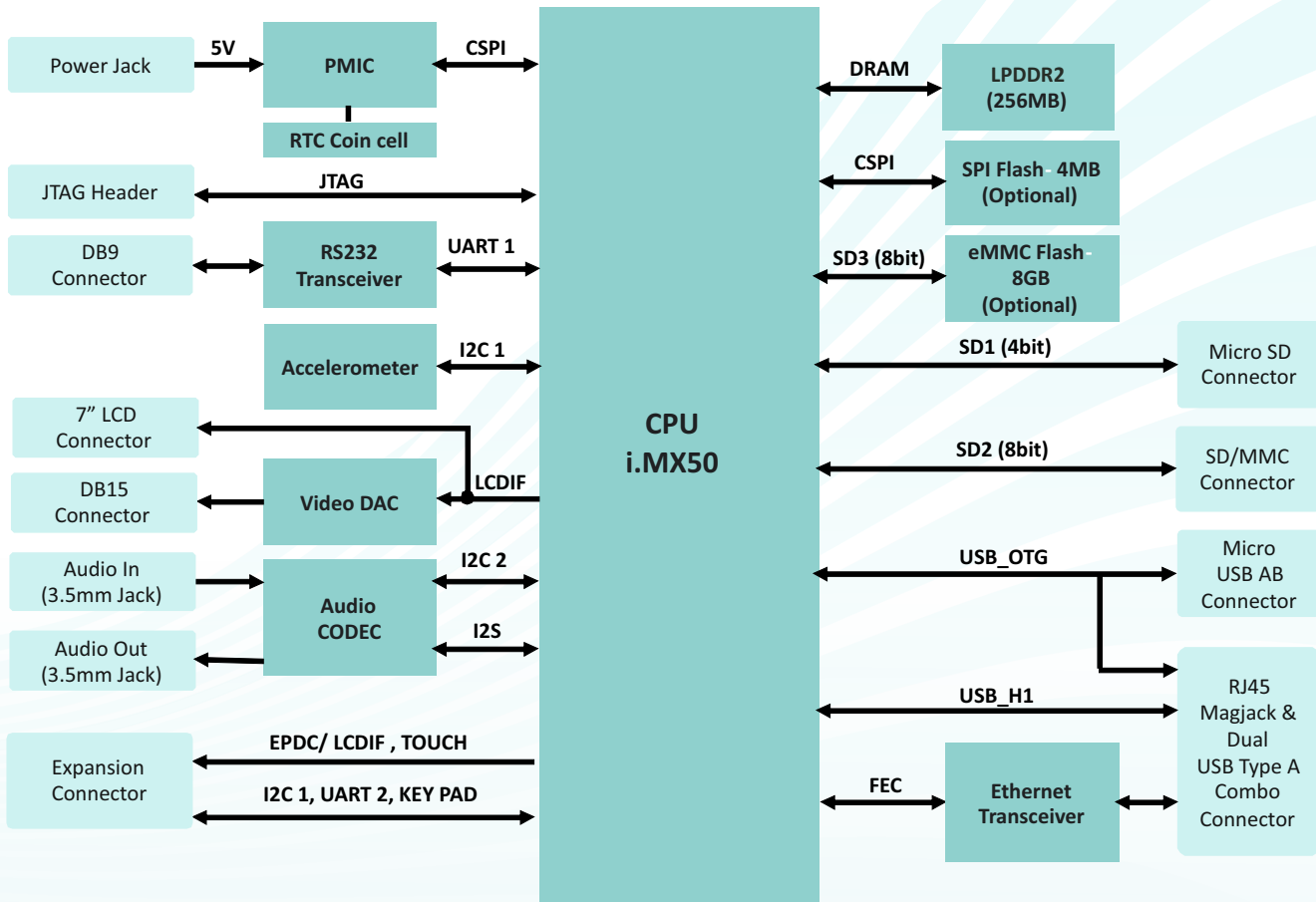
Board Support Packages available on the QSB to create applications ranging from Windows Embedded to Linux and Android OS

## SPECIFICATIONS

<b>Processor</b>	i.MX50x ARM Cortex A8 @ 800 MHz	<b>Expansion Connector - Interfaces</b>	EPDC
<b>PMIC</b>	Freescale MC34708		LCD
<b>Memory</b>	256MB LPDDR2 (Expandable)		I2C1
	2GB Micro SD (Expandable)		UART2
	4MB SPI NOR Flash*		4 Wire Touch
	8GB eMMC Flash *		Keypad (3x3)
<b>On Board peripherals</b>		<b>Switches &amp; Headers</b>	Reset Switch
	Micro SD slot		Boot mode setting DIP Switches
	Standard SD/MMC(8-Bit) slot		JTAG Header
	USB2.0 Host Type A	<b>Power Supply</b>	Onboard 3V Coin cell for RTC
	Micro USB2.0 device		External 5V, 2A DC Input
	10/100 Ethernet – RJ45 Jack	<b>Temperature</b>	Operating 0°C to +55°C
	Audio Codec – Mic & Headphone Jacks	<b>Board Form factor</b>	3inch x 3inch
	VGA Display port – DB15	<b>OS Support</b>	Linux 2.6.35
	RS232 debug console – DB9		WEC 7*, Android*
	3 Axis accelerometer		
	Onboard 7" LCD Connector*		
	Onboard Touch Connector*		

\* Optional

## i.MX50 QSB BLOCK DIAGRAM



### OS SUPPORT

Linux 2.6.35  
WEC 7 \*  
Android 2.3\*

\* Optional

### DELIVERABLES

i.MX508 QSB Board  
2 GB Micro SD Card (Linux loaded)  
Power Adapter  
Quick Start Guide

### OPTIONAL KITS

i.MX508 EPDC Daughter card  
MCIMX28 LCD Daughter card

### CUSTOM DEVELOPMENT

QSB Hardware customization  
BSP Development/ OS Porting  
Design review and support  
Custom SOM/ Carrier Development

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 QSB

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

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