

iWave's new i.MX6 Quad/Dual/Dual Lite/Solo based SODIMM module integrates all standard interfaces into a single board with ultra compact yet highly integrated platform that can be utilized across multiple embedded PC, system and industrial designs. It has got all the necessary functions that the embedded world demands.

**APPLICATIONS :** Intelligent Industrial Control Systems, Industrial Human-Machine interface, Ultra Portable Devices, Home Energy Management Systems, Portable Medical Devices

## iW-RainboW-G15M-SODIMM HIGHLIGHTS

ARM Cortex A9 @ 1GHz/800MHz  
Quad/Dual/Dual Lite/Solo core

Modular & Compact SODIMM form factor-  
67.6mm X 37mm

HD 1080p encode and decode

2D/3D Hardware Graphics Acceleration

Technical and quick customization support

10+ years, long term support

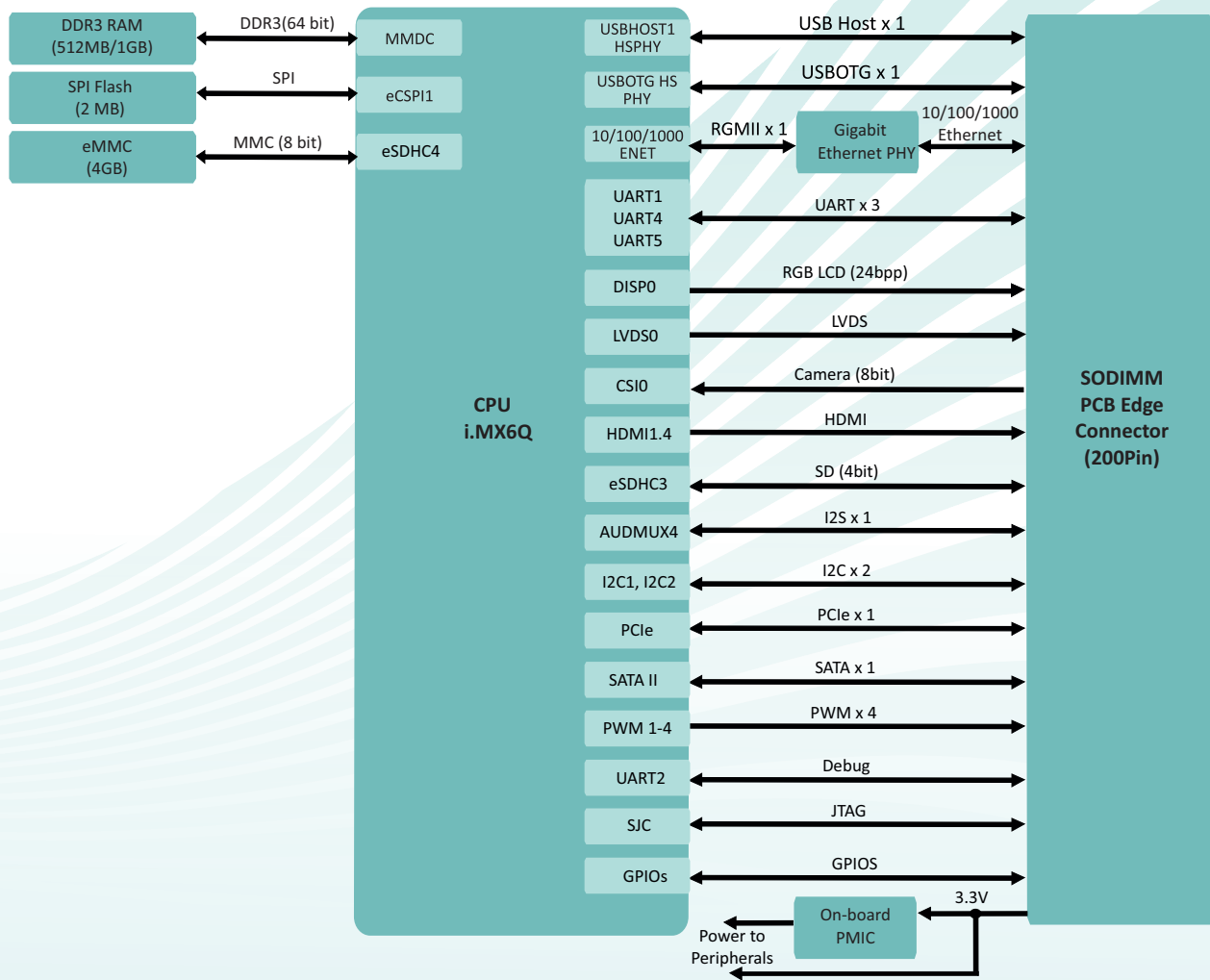
## SPECIFICATIONS

<b>CPU:</b>	PCIe x 1
i.MX6 Q/D/DL/S @1GHz/800MHz ARM-Cortex-A9	UART x 3
<b>PMIC:</b>	10/100/1000Mbps Ethernet
MMPF0100	HDMI x 1
<b>RAM:</b>	SATA x 1 *
1GB DDR3 for Q/D/DL (Expandable)	USB Host 2.0 x 1
512MB DDR3 for Solo (Expandable)	USB OTG 2.0 x 1
2MB SPI NOR Flash (Expandable)	SD (4bit) x 1
4GB eMMC Flash (Expandable)	I2S Audio x 1
<b>Communication:</b>	LVDS Display x 1
10/100/1000 Ethernet PHY	24bpp RGB Display x 1
<b>Power Input:</b>	8bit Camera x 1
3.3V , 3.5A input through SODIMM edge	I2C X 2
<b>Operating Temperature:</b>	GPIOs
-40°C to +85°C Industrial	PWM x 4
0°C to +70°C Commercial	Debug UART Port
<b>Form Factor:</b>	JTAG Port
67.6mm X 37mm SODIMM Form Factor	<b>Operating Systems:</b>
<b>SODIMM Edge Connector Interfaces:</b>	Linux 4.1.15, Android Nougat 7.1.1

Note: SATA support not available in i.MX6 DL/S

Note: \* Denotes Optional Features.

## i.MX6 SODIMM Module BLOCK DIAGRAM



### OS SUPPORT

Linux 4.1.15  
Android Nougat 7.1.1

### DELIVERABLES

i.MX6 SODIMM Module  
Board Support Packages  
User Manual

### OPTIONAL /MODULES

i.MX6 Development Kit  
4.3" LCD Display Kit  
Heat Spreader / Heat Sink  
Camera Module

### CUSTOM DEVELOPMENT

BSP Development/OS Porting  
Custom SOM/Carrier Development  
Custom Application/GUI Development  
Design Review and Support  
HMI Solutions

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.MX6 SODIMM SOM

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

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