

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

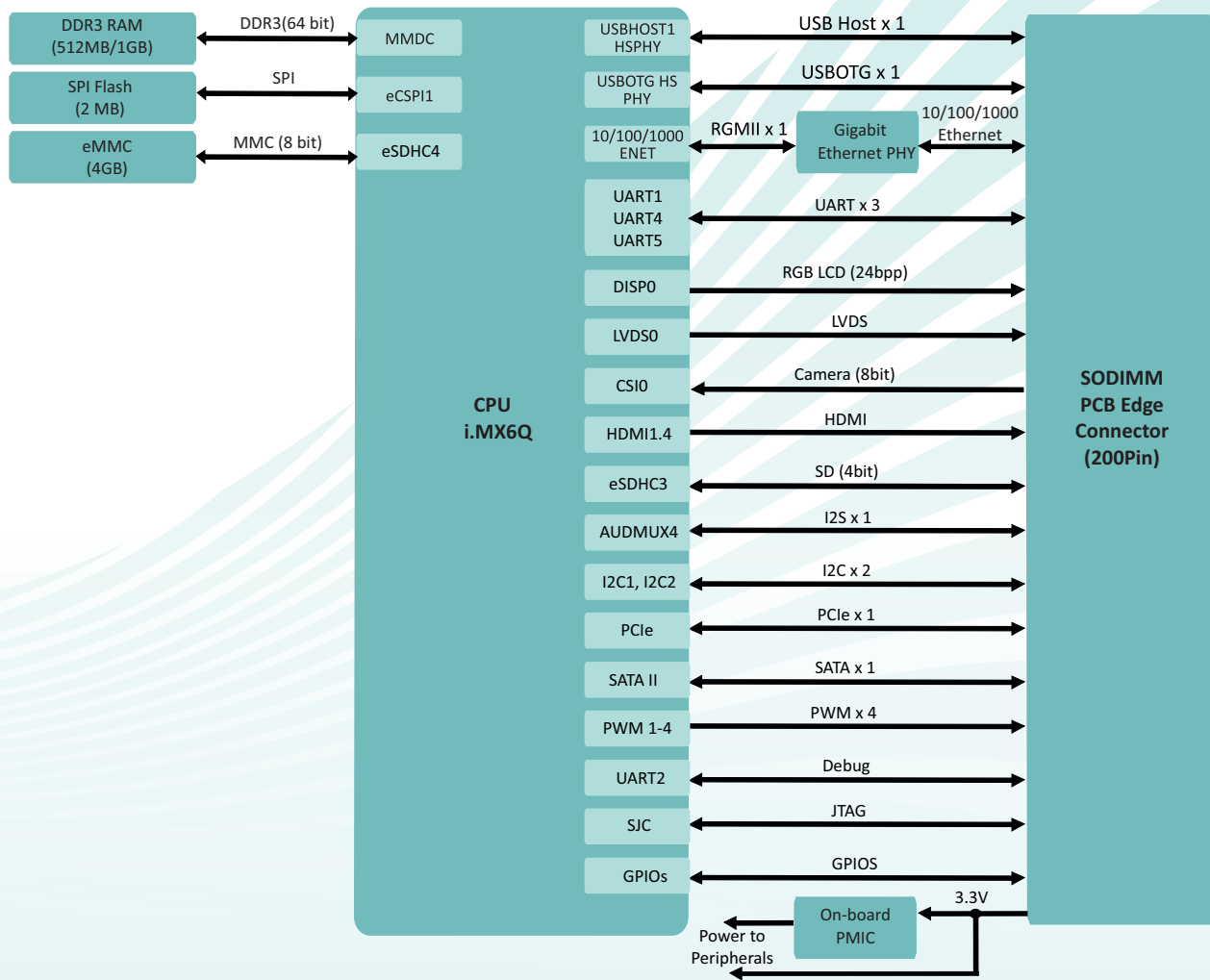
SPECIFICATIONS

CPU:	i.MX6 Q/D/DL/S @1GHz/800MHz ARM-Cortex-A9
PMIC:	MMPF0100
RAM:	1GB DDR3 for Q/D/DL (Expandable) 512MB DDR3 for Solo (Expandable) 2MB SPI NOR Flash (Expandable) 4GB eMMC Flash (Expandable)
Communication:	10/100/1000 Ethernet PHY
Power Input:	3.3V , 3.5A input through SODIMM edge
Operating Temperature:	-40°C to +85°C Industrial 0°C to +70°C Commercial
Form Factor:	67.6mm X 37mm SODIMM Form Factor
SODIMM Edge Connector Interfaces:	

PCIe x 1
UART x 3
10/100/1000Mbps Ethernet
HDMI x 1
SATA x 1 *
USB Host 2.0 x 1
USB OTG 2.0 x 1
SD (4bit) x 1
I2S Audio x 1
LVDS Display x 1
24bpp RGB Display x 1
8bit Camera x 1
I2C X 2
GPIOs
PWM x 4
Debug UART Port
JTAG Port
Operating Systems:
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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