

iWave's i.MX6 SODIMM development board incorporates i.MX6 SODIMM SOM Which is based on Freescale's high performance i.MX6 Quad ARM Cortex A9 processor and the carrier board with optional 4.3" resistive display kit. The development board can be used for quick prototyping of various applications targeted by the i.MX6 processors. With the 100mm x72 mm Pico ITX size, the kit is highly packed with all the necessary on-board connectors to validate the i.MX6 CPU features.

**APPLICATIONS:** Industrial HMI and Access Control , Industrial Control and Automation, Medical and Healthcare Equipment, Infotainment and Digital Signage, Portable Embedded Devices, White Goods and Smart Appliances.

## iW-RainboW-G15D-SODIMM HIGHLIGHTS

High Performance Quad Cortex -A9  
CPU @1GHz

Gigabit Ethernet, PCIe, SATA,  
LVDS, HDMI High Speed Interface  
Support

4.3" Display Kit with Resistive  
touchscreen

Ultra Compact form size  
100mm X 72mm

Compatible with Cortex A7  
i.MX6UL SODIMM SOM

## SPECIFICATIONS

### i.MX6Q SODIMM SOM:

i.MX6Q Cortex A9 CPU @ 1GHz  
PF0100 PMIC  
1GB DDR3  
4GB eMMC Flash  
10/100/1000 Ethernet PHY

### SODIMM Carrier Board:

HDMI - 1 Port  
SATA - 1 Port  
Gigabit Ethernet - 1 Port  
Half Mini PCIe - 1 Port  
LVDS Display - 1 Port  
USB 2.0 Host - 2 Ports<sup>1</sup>  
USB 2.0 OTG - 1 Port<sup>1</sup>  
Micro SD Slot - 1 Port  
4.3" RGB LCD Display<sup>2</sup>

Resistive Touch Controller  
Audio Codec, In / Out Jack  
8 - Bit CSI Camera Port  
Serial Console on USB Port  
Data UART - 1 Port  
CAN PHY - 1 Port  
IO Expansion Headers  
JTAG Header

### OS Support:

Linux 4.1.15  
Android Nougat 7.1.1

### Power Input:

5V @ 2A DC Input

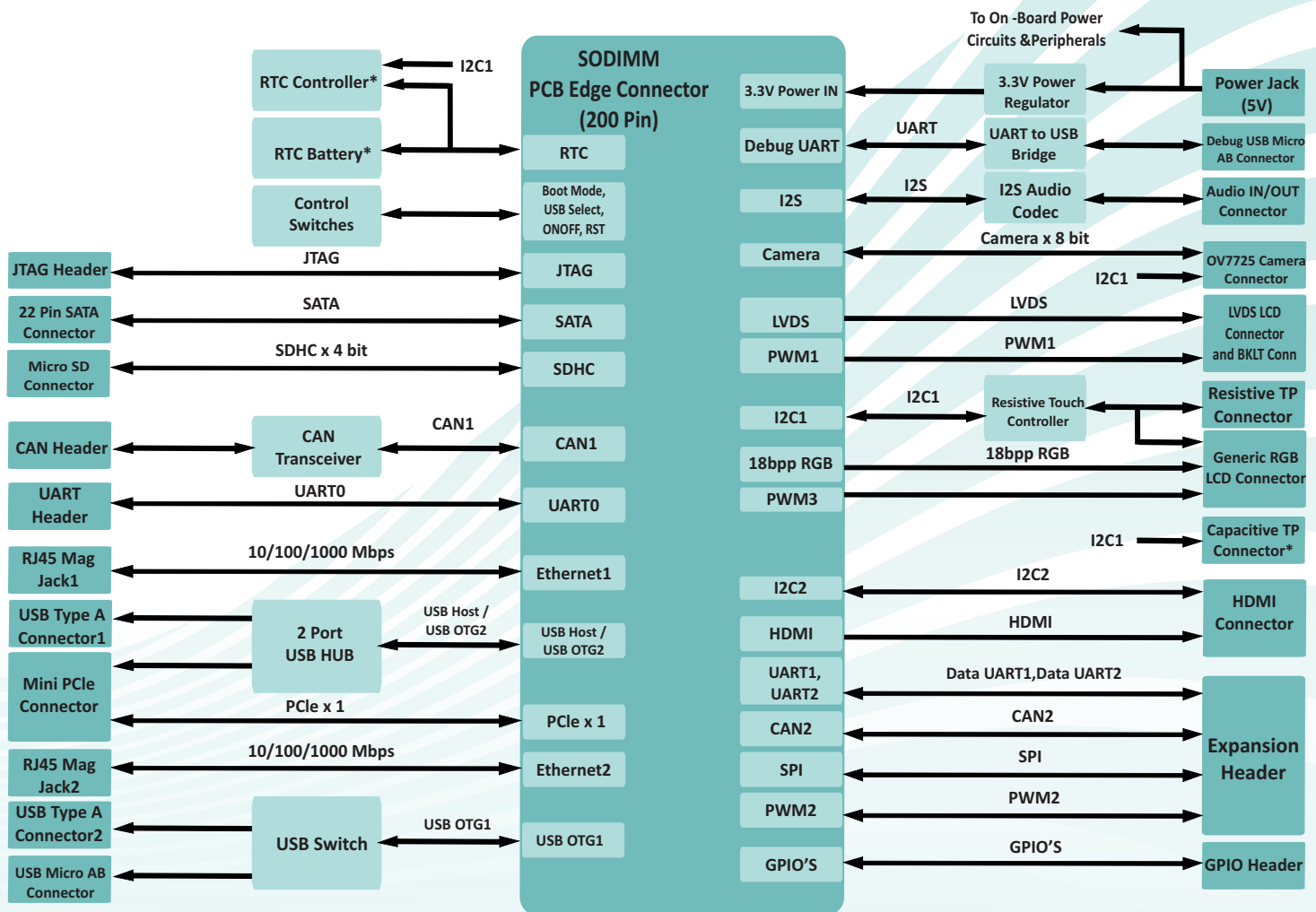
### Operating Temperature:

0°C to +60°C

**Form Factor:** Pico ITX : 100mm x 72mm

Note1: 2<sup>nd</sup> USB Host Port and USB Port is Multiplexed. Anyone can be used at a time.  
Note2: 4.3" Display Kit is Optional Feature.

## i.MX6 SODIMM Development Board Block Diagram



Note: \* Denotes Optional Features.

### OS SUPPORT

Linux 4.1.15  
Android Nougat 7.1.1

### DELIVERABLES

i.MX 6Q SODIMM Development Kit  
Support Board Package  
Hardware & Software User Manuals

### OPTIONAL KITS

4.3" RGB LCD Display Kit

### CUSTOM DEVELOPMENT

BSP Development/OS Porting  
Custom SOM /Carrier development  
Custom application /GUI development  
Design review and 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 in class specification. The registered trademarks are proprietary of their respective owners.

\*Optional items not included in the standard deliverables.

### Ordering the i.MX6 SODIMM Development Kit

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

### iWave Systems Tech. Pvt. Ltd.,

7/B, 29<sup>th</sup> Main, BTM Layout 2<sup>nd</sup> Stage,  
Bangalore-560076,  
India.

Ph: +91-80-26683700, 26786245

Email: [mktg@iwavesystems.com](mailto:mktg@iwavesystems.com)

[www.iwavesystems.com](http://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](mailto:info@iwavejapan.co.jp)

[www.iwavejapan.co.jp](http://www.iwavejapan.co.jp)

### iWave Europe

Postbus 6197  
3130 DD Vlaardingen  
The Netherlands

Ph: +31 10 28403383

Email: [info@iwavesystems.eu](mailto:info@iwavesystems.eu)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[iWave Systems:](#)

[iW-G15D-SM04-3D001G-E004G-ACC](#) [iW-G15D-SM01-3D512M-E004G-ACC](#)