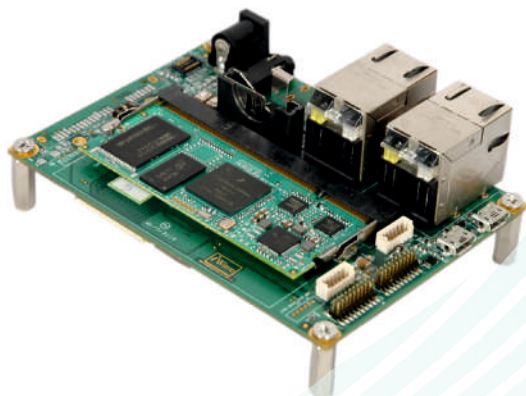


# Development Platform iW-RainboW-G18D i.MX6UL SODIMM Development Board



iWave's i.MX6UL development board incorporates i.MX6UL SODIMM SOM which is based on Freescale's power efficient i.MX6UL ARM Cortex A7 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.MX6UL processor. With the 100mm x 72mm Pico ITX size, and the kit is highly packed with all the necessary on-board connectors to validate the i.MX6UL CPU features.

**APPLICATIONS:** Industrial HMI & Access Control, Mobile POS & Secure e-commerce, Energy Management & IOT gateway, Industrial control & automation, Medical & Healthcare equipment and White goods & Smart appliances.

## iW-RainboW-G18D-SODIMM HIGHLIGHTS

Power efficient Cortex-A7 @ 528MHz

Compatible with Cortex A9 i.MX6Q/D/S SODIMM SOM

Ultra Compact form factor 100mm X 72mm

Advanced hardware enabled security

PMIC with DVFS support

Industrial temperature support available

Technical and quick customization support

10+ years, long term SOM support

## SPECIFICATIONS

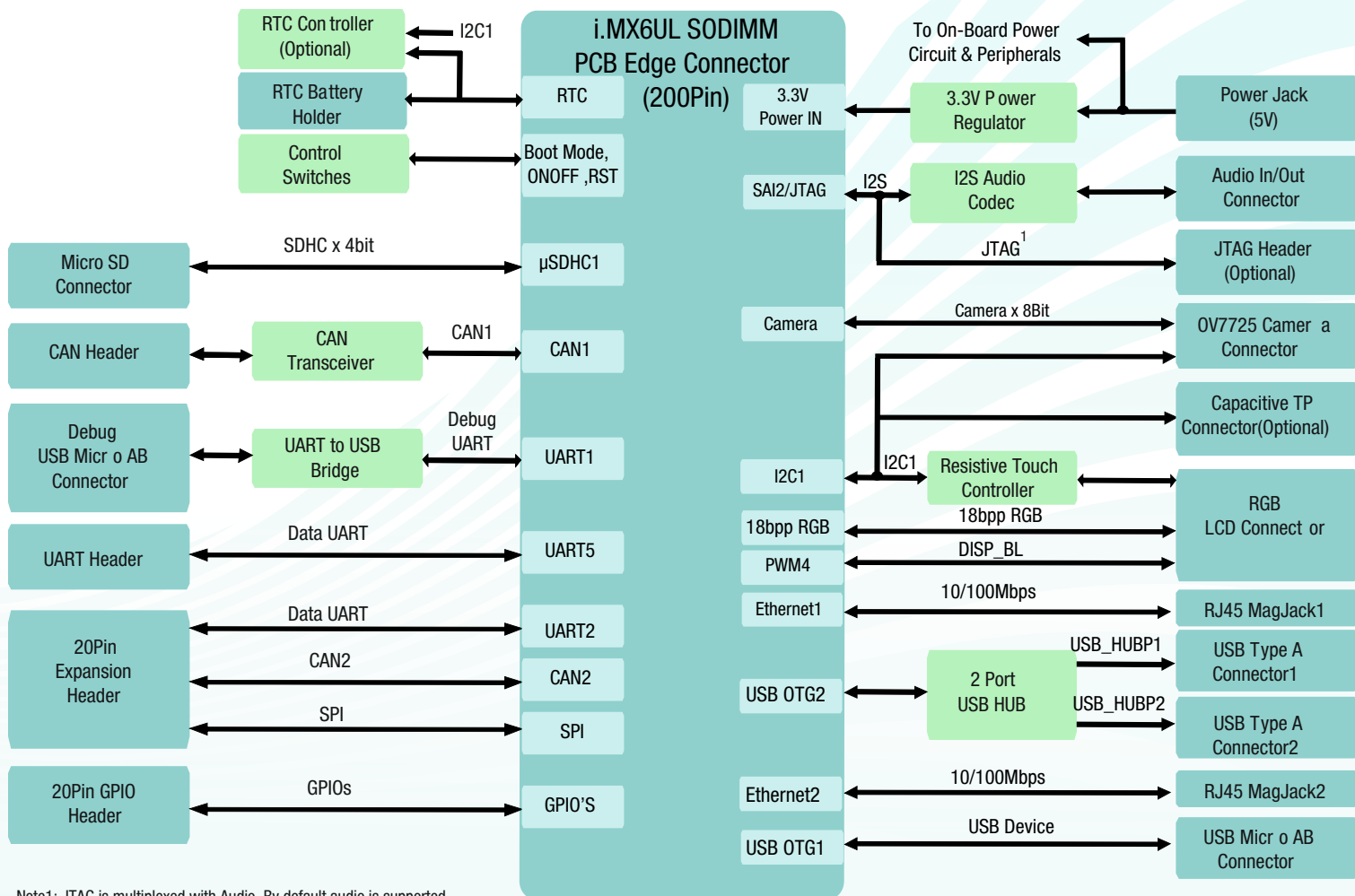
|                                 |                                            |
|---------------------------------|--------------------------------------------|
| <b>CPU:</b>                     | 4.3" LCD with resistive touch <sup>1</sup> |
| Freescale's i.MX6UL2/3 @ 528MHz | Resistive touch controller                 |
| ARM Cortex A7                   | Micro SD Slot                              |
| <b>PMIC:</b>                    | Audio Codec, In/Out Jack                   |
| Freescale PF3001                | 8Bit CSI Camera Port <sup>3</sup>          |
| <b>Memory:</b>                  | Serial Console on USB Port                 |
| 256MB DDR3                      | CAN PHY - 1 Port                           |
| 256MB NAND Flash                | UART Header                                |
| <b>Power Input:</b>             | GPIO Header                                |
| 5V @ 1A DC Input                | JTAG Header <sup>2</sup>                   |
| <b>Operating Temperature:</b>   | RTC Coin Cell                              |
| 0°C to +60°C                    | Boot mode Switch                           |
| <b>Form Factor:</b>             | ON/OFF, Reset Switch                       |
| 100mm x 72mm                    | <b>Expansion Header:</b>                   |
| <b>I/O Ports Support:</b>       | UART x2, CAN2                              |
| USB 2.0 Host - 2 Ports          | SPI <sup>3</sup>                           |
| USB 2.0 device - 1 Port         | <b>Operating System:</b>                   |
| 10/100 Ethernet - 2 Ports       | Linux 4.1.15                               |

Note1: 4.3" Display kit is optional feature.

Note2: JTAG is multiplexed with Audio. By default audio is supported.

Note3: Since CSI and SPI are multiplexed in CPU, either one interface only can be used at a time.

## i.MX6UL SODIMM DEV KIT BLOCK DIAGRAM



Note1: JTAG is multiplexed with Audio. By default audio is supported.

### OS SUPPORT

Linux 4.1.15

### DELIVERABLES

i.MX6UL SODIMM Development Kit  
Board Support Packages  
User Manual

### 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

### i.MX 6 UL/ULL/ULZ SODIMM DevKit

The device can be ordered online from the iWave Website

<https://www.iwavesystems.com/product/i-mx-6-ul-ull-ulz-sodimm-som/>

Or from our Local Partners in your region

<http://www.iwavesystems.com/>

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