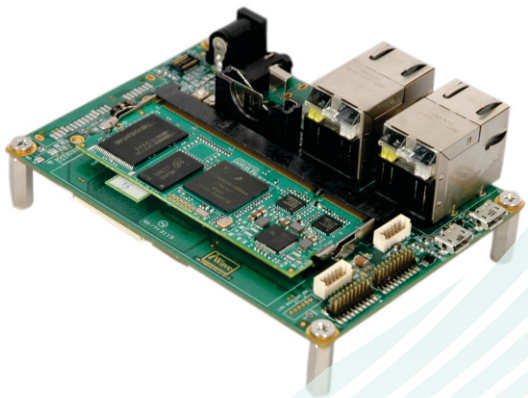
iWave
Embedding Intelligence

Development Platform iW-RainboW-G18D

i.MX6ULL SODIMM Development Board



iWave's i.MX6ULL development board incorporates i.MX6ULL SODIMM SOM which is based on NXPs power efficient i.MX6ULL 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.MX6ULL 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.MX6ULL 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

CPU:	10/100 Ethernet - 2 Ports
NXP i.MX6ULL @ 528MHz	4.3" LCD with resistive touch[1]
ARM Cortex A7	Resistive touch controller
PMIC:	Micro SD Slot
PF3001	Audio Codec, In/Out Jack
Memory:	8Bit CSI Camera Port[3]
256MB DDR3	Serial Console on USB Port
256MB NAND Flash	CAN PHY - 1 Port
Power Input:	UART Header
5V @ 1A DC Input	GPIO Header
Operating Temperature:	JTAG Header[2]
0°C to +60°C	RTC Coin Cell
Form Factor:	Boot mode Switch
100mm x 72mm	ON/OFF, Reset Switch
IO Ports Support:	**Expansion Header:**
USB 2.0 Host - 2 Ports	UART x2, CAN2, SPI[3]
USB 2.0 device - 1 Port	**Operating System:** Linux 3.14.38

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.

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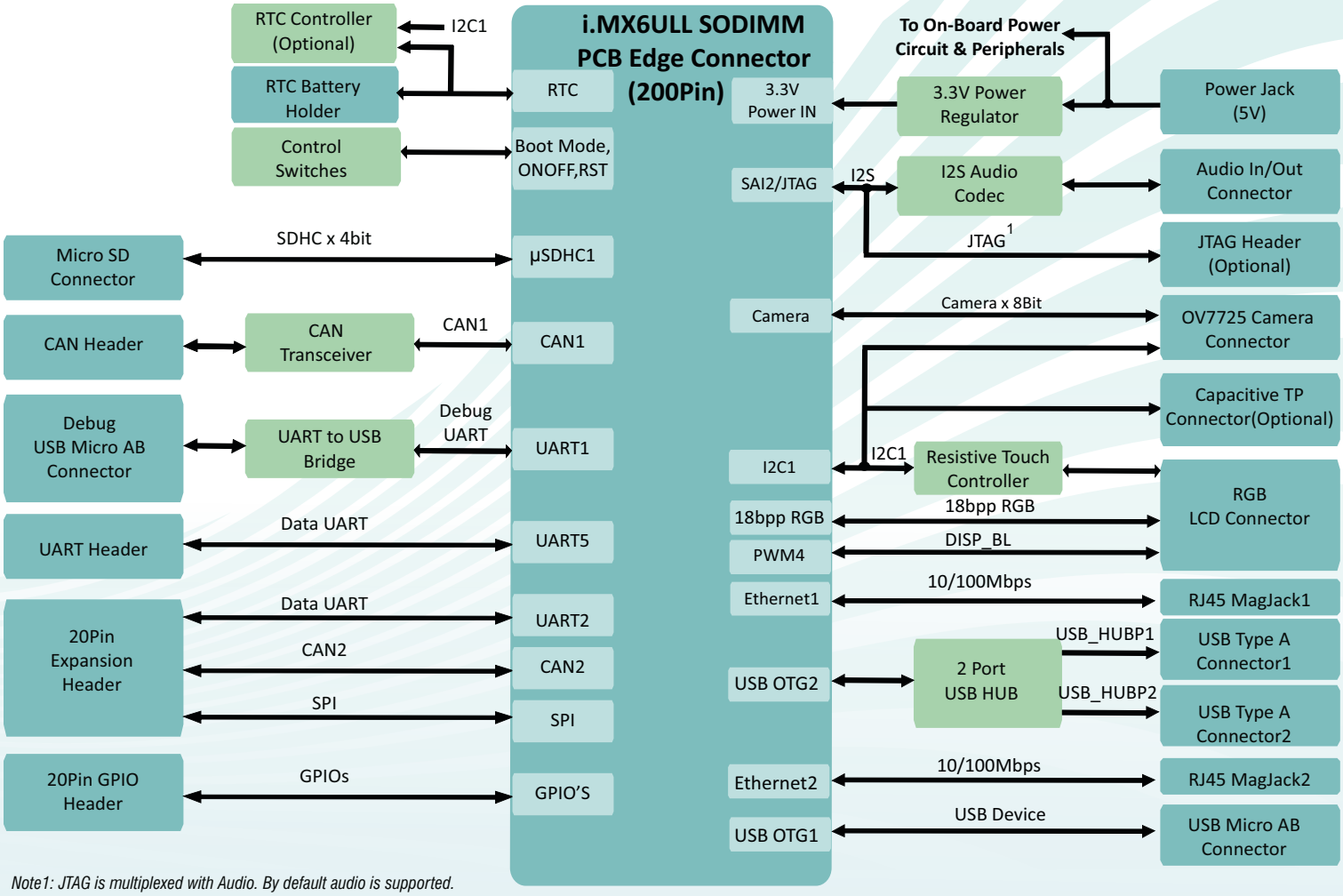
Proven Partner NXP

i.MX6ULL SODIMM DEVELOPMENT BOARD BLOCK DIAGRAM



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OS SUPPORT

Linux 3.14.38

DELIVERABLES

i.MX6ULL 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, NXP, Qualcomm, Renesas, Altera, Intel 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.

**Optional items not included in the standard deliverables*

Ordering the i.MX6ULL SODIMM Dev Kit
The board can be ordered online from the iWave Website
http://www.iwavesystems.com/webforms

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iW-G18D-iMX6ULL-SODIMM-BR-R1.0