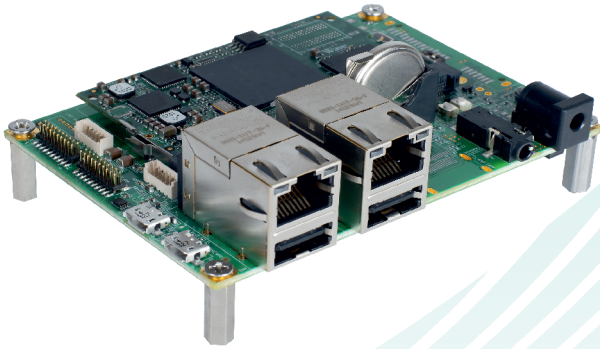


Development Platform iW-RainboW-G15D-SODIMM i.MX6 SODIMM Development Kit



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
touch screen

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 Ports¹

USB 2.0 OTG - 1 Port¹

Micro SD Slot - 1 Port

4.3" RGB LCD Display²

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

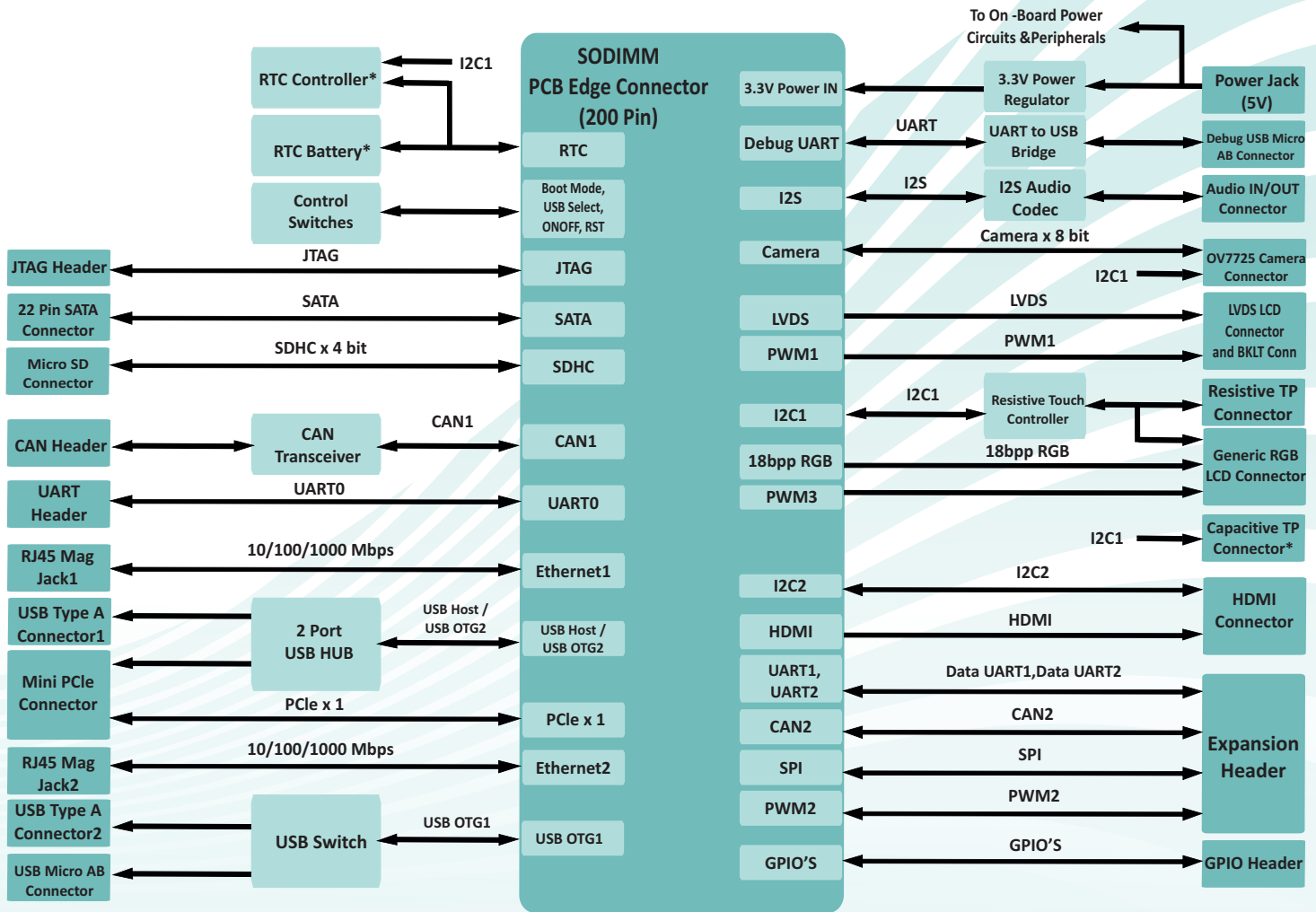
Operating Temperature:

0°C to +60°C

Form Factor: Pico ITX : 100mm x 72mm

Note1: 2nd 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>

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