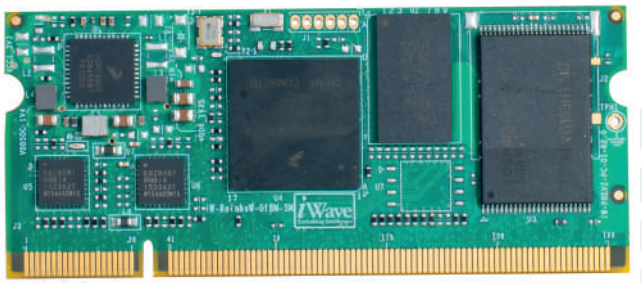
iWave
Embedding Intelligence

System On Module iW-RainboW-G18M-SM

i.MX6UL SODIMM Module



iWave's i.MX6UL based SODIMM CPU module integrates power efficient high performance ARM Cortex A7 CPU core operating up to 528MHz speed. The SOM is ultra-compact in size and integrated with on-board PMIC, Flash, DDR3 and dual Ethernet PHY. The SOM is ideally suitable for the cost & power optimized general embedded and industrial applications.

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

iW-RainboW-G18M-SM HIGHLIGHTS

Power efficient Cortex-A7 @ 528MHz

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

Ultra Compact form factor 67.6mm X 29mm

Advanced hardware enabled security

PMIC with DVFS support

Industrial temperature support available

Technical and quick customization support

10+ years, long term support

CE, FCC Certified

SPECIFICATIONS

CPU:
i.MX6UL1/2/3 @ 528MHz
ARM Cortex A7 Core
PMIC:
PF3001
RAM:
256MB DDR3 (Expandable)
256MB NAND Flash (Expandable)
Micro SD Slot (Optional)[1]
eMMC Flash (Optional)
QSPI Flash (Optional)[1]
Power Input:
3.3V @ 1A through SODIMM Edge
Operating Temperature:
0°C to +70°C Commercial
-40°C to +85°C Industrial
Form Factor: 67.6mm x 29mm

SODIMM Edge Interfaces:
Debug UART
Data UART - 2 Ports
CAN - 2 Ports
SD(4-Bit) - 1 Port
10/100 Ethernet - Up to 2 Ports[2]
USB OTG - 2 Ports
24bpp RGB display port
8Bit Parallel Camera Port
I2S Audio or JTAG
I2C Port
PWM - 2 Ports
GPIOs
Boot mode signals
Operating System:
Linux 4.1.15

Note1: At a time either NAND Flash or eMMC & QSPI flash or µSD & QSPI flash can be used in the SOM. By default NAND Flash is supported.
Note2: Applicable only to UL2, UL3 SOMs.If 2nd Ethernet (ENET2) not used, it can be used as additional 3 UARTs or Key pad 4x4 or RMII interface.

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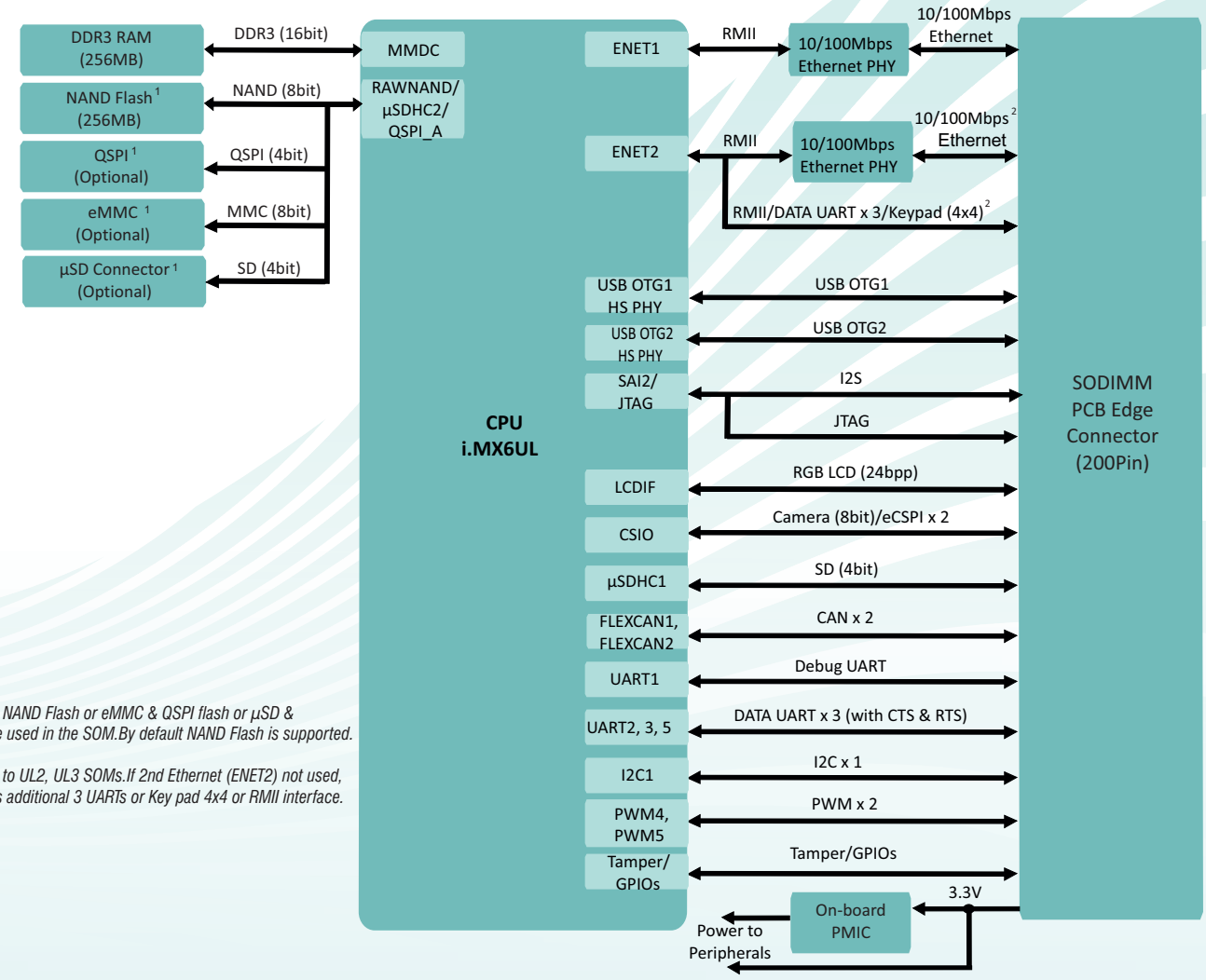
Proven Partner
NXP

i.MX6UL SODIMM Module BLOCK DIAGRAM



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OS SUPPORT

Linux 4.1.15

DELIVERABLES

i.MX6UL SODIMM Module
Board Support Packages
User Manual

OPTIONAL KITS

i.MX6UL Development Kit
4.3" LCD Display Kit
Camera Module

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, Renesas, Altera, Qaulcomm, 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.

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.MX6UL SODIMM SOM

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

iW-G18M-SODIMM-BR-R1.5

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