

System On Module iW-RainboW-G28M

Zynq 7000 SODIMM Module



Xilinx Zynq 7000 SoC based System On Module (SOM) features the Xilinx Zynq 7000 series SoC with Dual Cortex A9 CPU @ 866MHz, 85K FPGA logic cells and up to 120 FPGA I/Os. The SOM is equipped with on-board QSPI flash, eMMC, DDR3 RAM, Wi-Fi, BT and Gigabit Ethernet. This SOM is suitable for various industrial, embedded computing and medical applications.

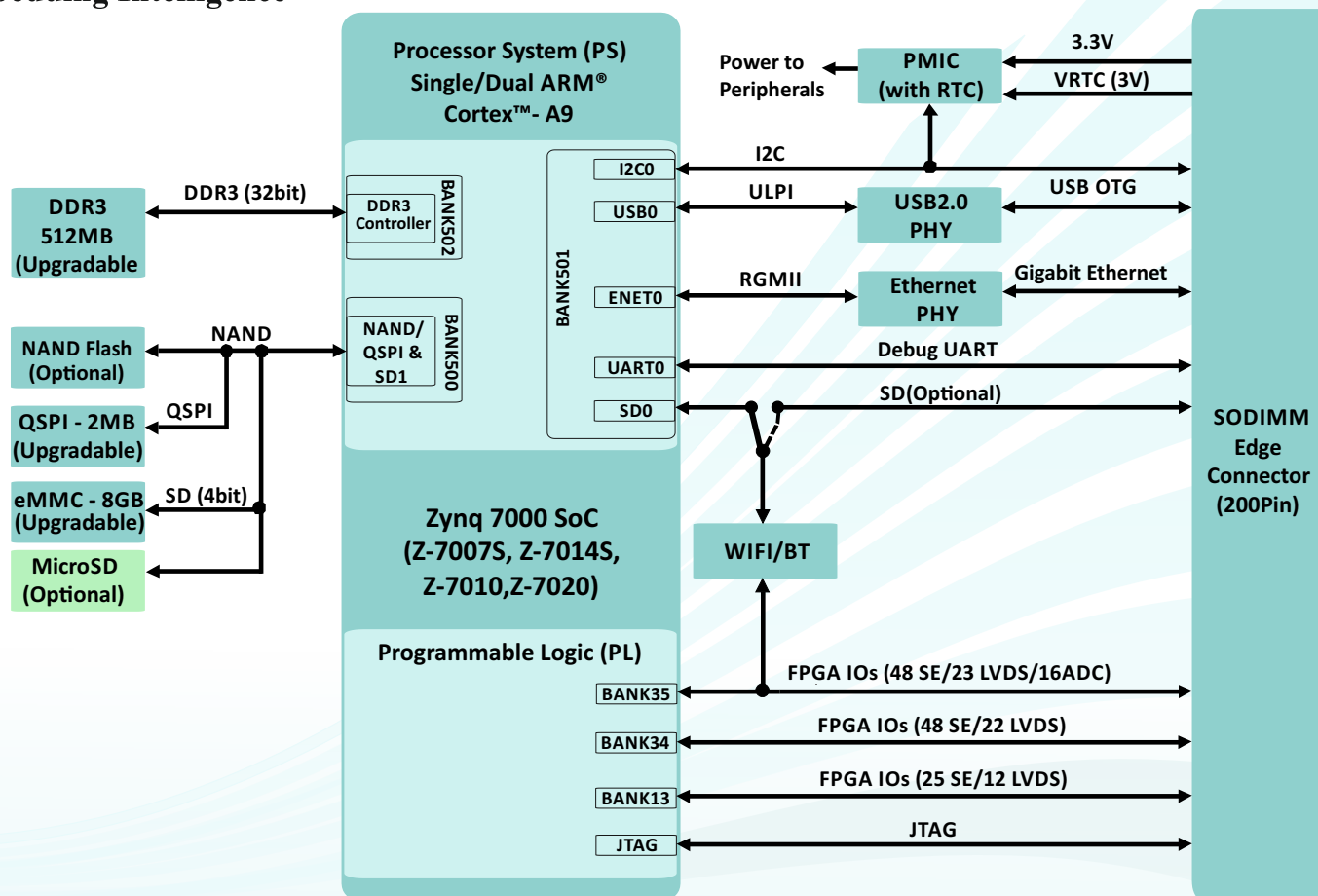
APPLICATIONS: Industrial automation, Industrial equipments, Machine Vision, Control & measurement, Scientific Instruments and Medical Instruments.

HIGHLIGHTS

- Dual Cortex A9 @ up to 866MHz
- Up to 85K FPGA logic cells
- Up to 120 FPGA I/Os
- Wi-Fi/BT Support
- 2MB QSPI Flash
- 8GB-eMMC
- Industrial grade availability
- 10+ Years availability
- Linux BSP support

SPECIFICATIONS

SoC: Xilinx Zynq 7000 SoC	SODIMM Edge Connector Interfaces:
Single/Dual Cortex A9 @ upto 866MHz	Zynq SoC PS Interfaces:
Up to 85K logic cells	Gigabit Ethernet x 1 Port
Compatible devices: Z-7007S, Z-7014S, Z-7010, Z-7020 (CLG400 package)	USB 2.0 OTG x 1 Port
Memory:	SD (4bit) x 1 Port(Optional)
512MB DDR3 (Expandable to 1GB)	Debug UART
512MB NAND Flash(Optional)	JTAG Port
2MB QSPI Flash(Boot Device)	Zynq SoC PL Interfaces:
Micro SD Slot /8GB-eMMC (Secondary Boot Device)	60LVDS/120 SE FPGA I/Os
On SOM features:	OS Support: Linux 4.14.0
PMIC with RTC	Power Supply:
Gigabit Ethernet Transceiver	3.3V through SODIMM Edge Connector
USB2.0 Transceiver	Temperature support:
Wi-Fi/BT Module	-40°C to +85°C
	Form Factor: 67.6mm x37mm



Note:

- In PS, QSPI Flash or NAND Flash can be used as boot flash.
- In PS, QSPI+SD1 and NAND signals are multiplexed in the same pins and so either QSPI & MicroSD/eMMC or NAND can be used at a time.
- PL supports Dual 12bit 1Msps ADC and supports upto 16 Analog Inputs through PLBANK35. Only On-Chip voltage reference is supported.
- In PL, Bank13 is available only in Z-7014S & Z-7020 SoC.
- If BT support is required, then two SE Ios from PL BANK35 can't be connected to SODIMM edge connector.

OS SUPPORT

Linux 4.14.0

DELIVERABLES

Zynq-7000 SODIMM Development Kit
Board Support Package
Hardware & Software User Manuals

OPTIONAL KITS/Modules

Zynq-7000 SODIMM SOM

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 System 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.

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Ordering the Xilinx based Zynq 7000 SODIMM SoC

The device can be ordered online from the iWave Website

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

Or from our Local Partners in your region

<http://www.iwavesystems.com/about-us/business-partner.html>

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