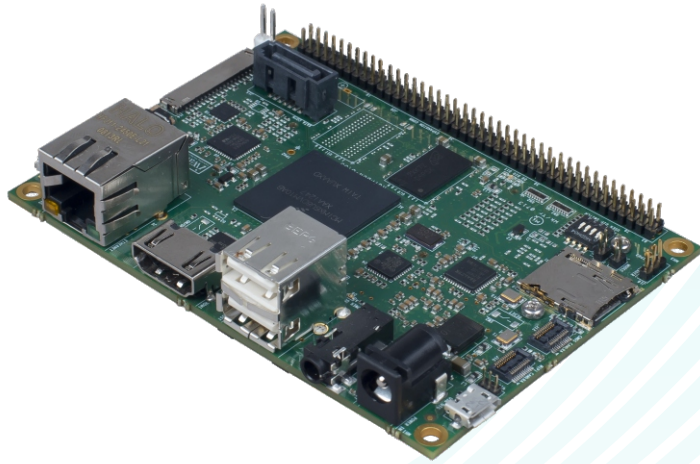


# Single Board Computer RainboW-G15S i.MX6 Dual Lite / Solo Pico ITX SBC



iWave's new i.MX6 Dual Lite/Solo based Pico ITX SBC integrates all standard interfaces into a single board with ultra compact yet highly integrated platform that can be utilized across multiple embedded PC, system and industrial designs. It has got all the necessary functions that the embedded world demands on a single board. It also provides an expansion header through which interfaces can be used according to their applications. Measuring just 100mm x 72mm, the Pico-ITX is currently the smallest complete ARM Cortex A9 main board in the industry, smaller than all existing ATX, BTX and ITX form factors.

**APPLICATIONS:** Intelligent Industrial Control Systems, Industrial Human-Machine interface, Ultra Portable Devices, Home Energy Management Systems, Portable Medical Devices

## iW-RainboW-G15S HIGHLIGHTS

ARM Cortex A9@ 1GHz Dual Lite/Solo core

10cm x 7.2cm Pico-ITX form factor  
Single Board Computer

HD 1080p encode and decode

3D video playback in high definition

Includes HDMI v1.4, MIPI and LVDS display ports, MIPI camera, Gigabit Ethernet, multiple USB 2.0 and PCI Express

Comprehensive security features include cryptographic accelerators, high-assurance boot and tamper protection

Technical & quick customization support  
5+ years, Long term support

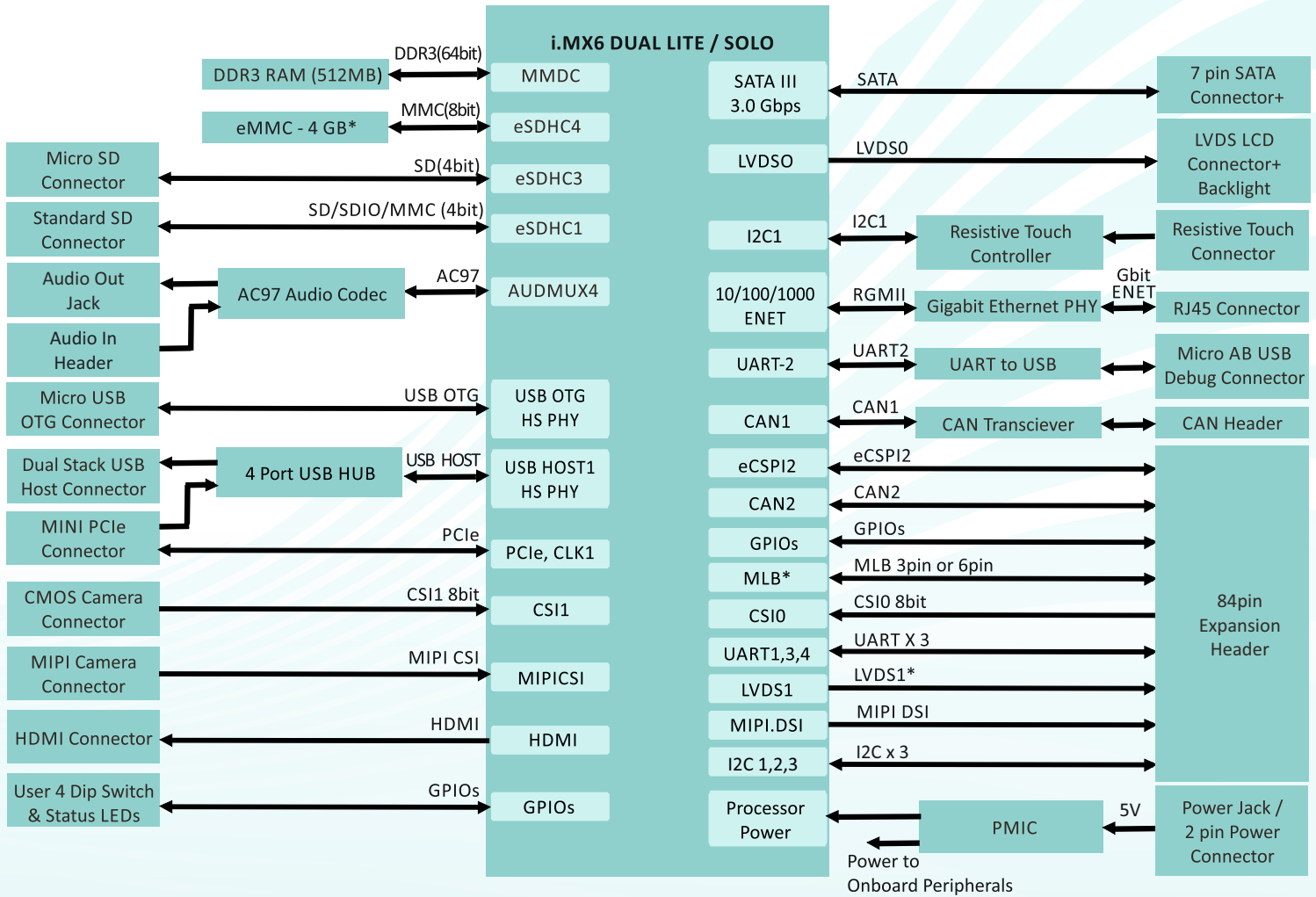
## SPECIFICATIONS

<b>CPU:</b> i.MX 6 Dual Lite/Solo, (Quad/Dual compatible)	<b>Debug &amp; Status Indication Support:</b> Micro USB Debug Port Optional JTAG Header* 4 Pos User Dip Switch & Status LEDs
<b>RAM:</b> 512MB DDR3 (Expandable up to 2GB)	<b>Expansion Header-84 Pin:</b> MIPI DSI SPI Interface-1No CSI0 Camera interface CAN2 Interface
<b>Storage:</b> On-board Micro SD Slot Standard SD/SDIO Slot Optional eMMC Support* Optional SATA 7 Pin Connector <sup>+</sup>	<b>UART- 3 Nos</b> <b>I2C- 3 Nos</b> <b>GPIOs</b> Optional LVDS1 interface <sup>+</sup> Optional MLB interface <sup>+</sup>
<b>Communication Interfaces:</b> 10/100/1000 Mbps Ethernet Half mini PCIe card Connector Dual USB Host Connector Micro USB OTG Connector CAN Header	<b>Operating Temperature: -20°C to +85°C</b> <b>Power Input: 5V, 2A</b> <b>Form Factor:</b> Pico ITX (100mm x 72mm)
<b>Audio &amp; Video Interfaces:</b> AC97 Audio Codec with Audio Out Jack & Audio In Header HDMI Port LVDS Connector with Backlight & Resistive Touch Connector Support 8 Bit CMOS Camera Connector 2 Lanes MIPI Camera Connector	<b>Operating Systems:</b> Linux 3.0.35 Android 4.0.4* WEC7*

\*Optional features not supported by default

<sup>+</sup> Supported by the iMX6 Quad/Dual based SBC

## i.MX6 DUAL LITE / SOLO PICO ITX SBC BLOCK DIAGRAM



\* Optional

\* Not Available for Dual Lite / Solo

### OS SUPPORT

Linux 3.0.35  
Android 4.0.4\*  
WEC7\*

\* Optional

### DELIVERABLES

i.MX6 Pico ITX SBC  
Board Support Packages  
5V @ 2A Power Adapter  
User Manual

### OPTIONAL ADD ON MODULES

Coming Soon\*

### CUSTOM DEVELOPMENT

BSP Development/OS Porting  
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 of breed specification. The registered trademarks are proprietary of their respective owners.*

\*Optional items not included in the standard deliverables

### Ordering the i.MX6 Pico ITX SBC

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

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