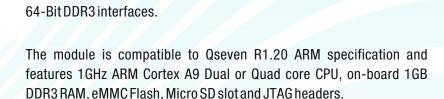


# System On Module RainboW-G15M-Q7

iWave Systems launching high performance Qseven SOM module based on Freescale's i.MX6 ARM Cortex-A9 processor for faster and multimedia focused applications. With extreme peripheral integration, the CPU supports industry latest high-performance interfaces, such as PCIe Gen2, Gigabit Ethernet, SATA 3.0, HDMI 1.4, SDXC, MIPI CSI/DSI and

# **Qseven Compatible i.MX6 Module**









## iW-RainboW-G15M-Q7 HIGHLIGHTS

ARM Cortex A9@ 1GHz Dual/Quad core

64-bit DDR3-1066 support

OpenGL® ES 2.0 3D, OpenVG™ 1.1graphics accelerators

Multi format HD1080p HW decode and encode

Four simultaneous display support

Integrated high bandwidth connectivity peripherals

Industry latest HDMI1.4, SDXC, MIPI CSI/DSI interfaces

Technical & quick customization support

5+ years, Long term support

#### **SPECIFICATIONS**

CPU	Expansion Connector**
i.MX6 1GHz/800MHz Cortex A9 Q/D/U/S	Camera CSIx2 (8-bit)
Memory	MIPI CSI, DSI
512MB/1GB DDR3 SDRAM [Expandable]	24-Bit RGB LCD IF
4GB eMMC Flash	Dual UART
Optional SPI Flash*	4x4 Key, Memory Bus
On-board Micro SD Slot**	ESAI, SPDIF
<b>Qseven Edge Connector</b>	MLB, CAN2
PCle v2.0 x 1 lane	I2C2, PWM, GPIO
HDMI 1.4	Temperature
SATA 3.0 x 1	-40°C to 85°C
Gigabit Ethernet	<b>Board Form Factor</b>
anguare amornios	
Dual LVDS	Qseven R1.20 Compatible
-	Qseven R1.20 Compatible  Power Input
Dual LVDS	·
Dual LVDS USB2.0 Host x4	Power Input
Dual LVDS USB2.0 Host x4 USB2.0 Device	Power Input 5V, 1A Typical
Dual LVDS USB2.0 Host x4 USB2.0 Device AC97 Audio	Power Input 5V, 1A Typical Operating Systems
Dual LVDS USB2.0 Host x4 USB2.0 Device AC97 Audio 8-bit SD/MMC	Power Input 5V, 1A Typical Operating Systems Linux 3.0.35
Dual LVDS USB2.0 Host x4 USB2.0 Device AC97 Audio 8-bit SD/MMC CAN1	Power Input 5V, 1A Typical Operating Systems Linux 3.0.35 Android 4.0.4
Dual LVDS USB2.0 Host x4 USB2.0 Device AC97 Audio 8-bit SD/MMC CAN1 SPI, I2C	Power Input 5V, 1A Typical Operating Systems Linux 3.0.35 Android 4.0.4 WEC7*

<sup>512</sup>MB DDR3 supported for i.MX6 Solo SOMs and for other CPU configurations 1GB DDR3 is supported \*Optional features not supported by default

Note: device drivers provided are for specific interface chipsets which are used in iWave's carrier board

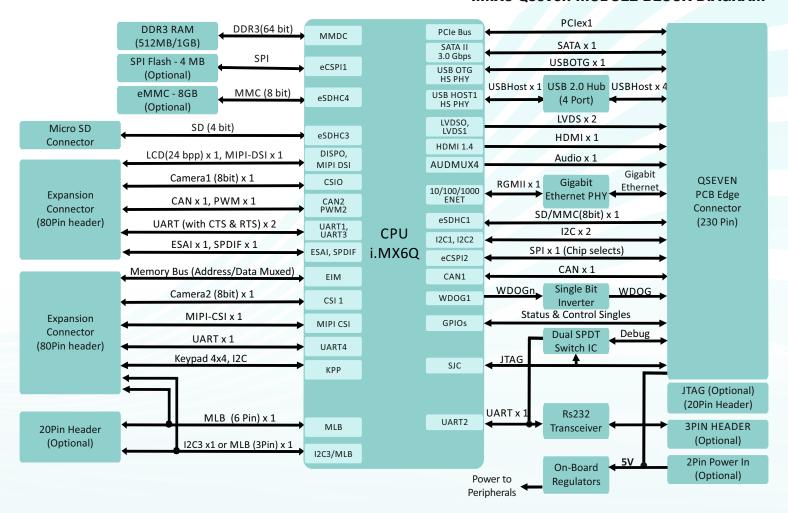
<sup>\*\*</sup> Not populated in mass production SOM







### i.MX6 Oseven MODULE BLOCK DIAGRAM



#### **OS SUPPORT**

Linux 3.0.35 Android 4.0.4 WEC7\*

\* Optional

#### **DELIVERABLES**

i.MX6 Qseven SOM Module Board Support Packages User Manual

#### **OPTIONAL KITS**

RainboW-G15D-Q7 (i.MX6 Development 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 of breed specification. The registered trademarks are proprietary of their respective owners.

\*Optional items not included in the standard deliverables

### Ordering the i.MX6 Qseven Module

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

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