



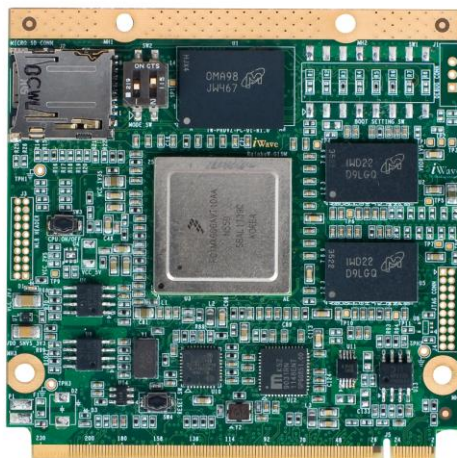
# Industry's Latest Quad core Cortex A9 Qseven SOM using i.MX 6 Series

**With Dual/Quad/Solo core, 1080p HD decode-encode and four simultaneous displays**

iWave Systems Technologies Pvt. Ltd., a leading Embedded Product Engineering Services provider launched the industry's first high performance quad core i.MX6 Qseven SOM.

**BANGALORE, INDIA-February 2012:** The i.MX 6 Series processor is Freescale's latest release in the i.MX family of processors and mass production samples will be available later this year. Requiring just eight weeks from concept to completion, iWave Systems Technologies has taken full advantage of its versatility and introduced the first Qseven standard compatible i.MX6 System-On-Module (SOM).

The i.MX6 Qseven SOM uses Freescale's i.MX 6 Series 1.2GHz ARM Cortex A9 Quad/Dual/Solo core processor which is optimised for high speed and multimedia applications. The module is Qseven R1.20 standard compliant and targets the Industrial, Automotive and Medical verticals.



**Qseven compatible i.MX6 SOM**

Incorporating on-board eMMC flash, Micro SD slot and expandable DDR3 memory, the module also features the latest high performance interfaces including PCIe Gen2, Gigabit Ethernet, SATA 3.0, HDMI 1.4, SDXC and MIPI CSI/DSI.

Designed with a rich feature set, the i.MX6 Qseven module focuses on the high demand automotive infotainment (IVI) and Telematics market. Also the combination of high performance and low power makes it ideal for applications such as Advanced HMI, Video and Navigation, Portable Medical devices, Digital signage and Single Board SOC Computing.

## **Qseven compatible i.MX6 Module:**

### **Highlights:**

- ARM Cortex A9 up to 1.2 GHz Quad/Dual/Solo core
- Up to 4GB DDR3-1066 support
- OpenGL ES 2.0 3D, OpenVG 1.1 Graphics Accelerators
- Multi Format HD 1080p HW decode and encode
- Four simultaneous display ports
- Integrated high bandwidth connectivity peripherals
- Industry latest HDMI 1.4, SDXC, SATA 3.0, and MIPI CSI/DSI interfaces
- Linux, Android 4.0 and WEC7 OS support

### **Benefits:**

- Qseven compatible & hence modular
- QUAD, DUAL, Solo core pin compatible options possible
- Quick time to market
- Fan less, low power solution

### **Standard Features:**

- **CPU:**
  - i.MX6x 1GHz Cortex A9 Q/D/S core
- **Memory:**
  - 1GB DDR3 SDRAM– Expandable to 4GB
  - Optional 8GB eMMC Flash
  - On-Board Micro SD slot
- **Qseven Edge Connector :**
  - PCIe v2.0 x 1 Lane

- HDMI 1.4
  - SATA 3.0 x 1 port
  - Gigabit Ethernet
  - Dual LVDS LCD Support
  - USB 2.0 Host x 4 ports
  - USB 2.0 device x 1 port
  - AC97 Audio
  - 8-Bit SD/MMC
  - CAN1, SPI & I2C ports
  - Debug Port
- **Expansion Connector:**
    - Camera CSI x 2 ports
    - MIPI CSI & DSI
    - 24 Bit RGB LCD IF
    - Triple UART
    - 4x4 Key Matrix
    - ESAI, SPDIF
    - MLB, CAN2
    - I2C2,PWM,GPIO,Memory bus
- **Form factor:** Qseven R1.20 compatible
  - **Temperature:** 0 to 70°C
  - **Power Input:** 5V, 1A Typical
  - **OS support:** Linux 2.6.38, WEC7 and Android 4.0

The realization of SOM is incomplete without the exhibition of its potential. Hence iWave has catapulted the SOM usage showcase through the i.MX6x Development Kit thereby speeding up the time to market for engineers wishing to use the new processor for their system development. The development kit includes the generic Q7 carrier board in Nano ITX form factor which supports all major interface connectors to evaluate the i.MX6 functionality

**iWave Systems Technologies Pvt.Ltd. first demonstrated the i.MX6 Quad core Qseven SOM with Android 4.0 at Embedded World-2012 in February at Nuremberg,Germany.**



### **i.MX6 Development Kit**

The SOM and the development platform will be available from April 2012. Besides this iWave will also provide following quick customization design services

- Developing the application specific carrier board
- Custom SOM design
- Custom OS porting
- BSP development services.

iWave is a Product Engineering Services company providing cutting edge design and development of Embedded Hardware, FPGA and Software solutions. iWave has been an innovator in the development of highly integrated, high-performance, low-power and low-cost i.MX6/i.MX50/i.MX53/i.MX51/i.MX27 SOMs. iWave SOMs have been engineered to meet the industry requirements thereby helping its customers to reduce their time-to-market and development effort.

**Expert check –iWave through the Expert’s eye:**

**“iWave continues to provide Freescale customers with fully supported i.MX System on Module (SoM) solutions ranging from the i.MX25 up to the newest i.MX 6 Series. iWave’s software system integration capabilities combined with their hardware and training solutions accelerate customer time to market advantages. iWave’s global presence including Asia and Japan further enriches the i.MX ecosystem network.” said**

*Ken Obuszewski , Director of Product Management for Freescale's Multimedia Applications Division.*

Visit, <http://iwavesystems.com/?q=node/239> for more details

For Video, <http://www.youtube.com/watch?v=nUEW8Pt3ksU&feature=youtu.be>

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