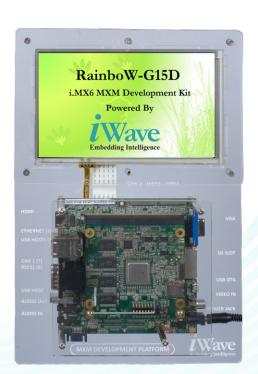


Development Platform RainboW-G15D-MXM

i.MX6 MXM Development Board



RainboW G15D is a multipurpose platform powered by automotive grade i.MX6 MXM SOM which is based on Freescale's i.MX6 Series 1GHz multimedia focused processor. This platform can be used for quick prototyping of any high end applications in verticals like Automotive, Industrial & Medical. Being a nano ITX form factor with 120mmx120mm size, the board is highly packed with all necessary onboard connectors to validate complete i.MX6 CPU features.

APPLICATIONS: Automotive Infotainment, Advanced HMI, Telematics, Digital Signage, Healthcare and Medical Equipments







iW-RainboW-G15D-MXM HIGHLIGHTS

Ideal for Quick Proof of concept (POC) development

Shortens 60% of the new product development life cycle

Quad Display Support

Quick customization services in a very shorter period

Compact (NanolTX 120mm X 120mm) form factor

Suitable for Wide Range of **Applications**

SPECIFICATIONS

i.MX6 CPU Module:

i.MX 6 Quad/Dual/Solo CPU ARM®Cortex™-A9 core @1GHz

2D/3D GPU (OpenGL ES 2.0, OpenVG 1.1) Hardware Encoder and Decoder

RAM: 1GB DDR3 RAM (Expandable)

Storage:

MicroSD

4GB eMMC Flash (Expandable)

Storage:

SATA 3.0 - 1Port

Standard SD/MMC -1 Port

Communication Interfaces:

Gigabit Ethernet - 1 Port

USB 2.0 Host - 3 Ports

USB 2.0 OTG - 1 Port

RS232 Debug Console - 1Port

CAN - 2 Ports (DB9, Header)

Mini PCle 2.0 - 1 Port

Wi-Fi Module (Shared with Micro SD)

Sensors:

3-Axis Accelerometer

Digital e-Compass

Ambient Light Sensor

Audio and Video:

On-board Audio Codec

Audio IN/OUT Jacks TV-IN RCA Jack - 1 Port

Parallel Camera - 1 Port

800x480 - RGB 7" LCD

HDMI 1.4 - 1Port

Audio Amplifier

On-Board Headers:

UART Headers

ESAI Header

MLB Header

RTC Coin cell Holder

Expansion Connector-1*:

Memory Bus, UART, I2C

MLB(3 pin), SSI, GPIOs, 12V

Expansion Connector-2*:

iMX6 RGMII.ENET Interface*

MIPI CSI, MIPI CSI, MLB-6pin, 12V

Operating Temperature:

0 to 60°C

Power Input:

12V@ 2A DC Input

Form Factor: Nano ITX 120mmx120mm

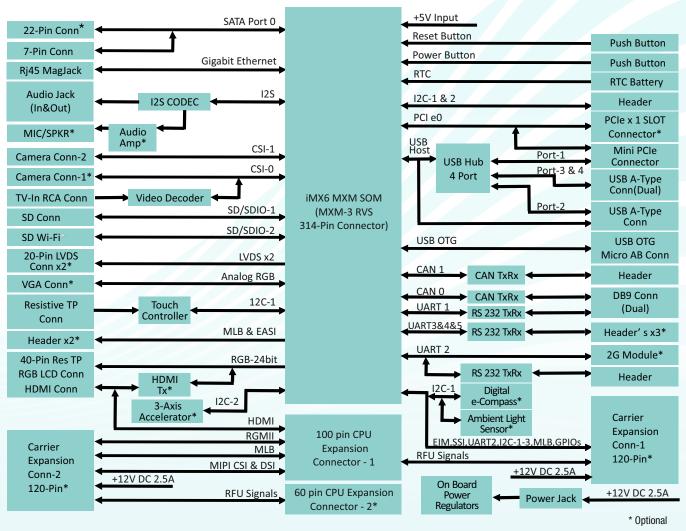
^{**} Note: device drivers provided are for specific interface chipsets which are used in iWave's carrier board







i.MX6 MXM DEVELOPMENT BOARD BLOCK DIAGRAM



OS SUPPORT

Linux 3.0.35 Android 4.0.4* QNX 6.5.0*

* Optional

DELIVERABLES

RainboW-G15D-MXM Platform Board Support Packages Power Adapter User Manual

OPTIONAL KITS

Camera Add On Module 7"Capacitive Touch Add On Module 3G Add On Module

CUSTOM DEVELOPMENT

Custom SOM/ Carrier Card Development BSP Development/ OS Porting Design Review & 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 MXM Development Board

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

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