

Development Platform iW-RainboW-G15D-Q7

i.MX6 Qseven Development Kit



APPLICATIONS: Industrial HMI, Automotive IVI, Video & Navigation, Graphical Instrument Clusters, Portable Medical Devices, Intelligent Industrial Control Systems and Home Energy Management Systems





iW-RainboW-G15D-Q7 HIGHLIGHTS

Ideal for Quick Proof of concept (POC) development.

Shortens 60% of the new product development life cycle

Quick customization services in a very shorter period

SPECIFICATIONS

i.MX6 CPU Module:

i.MX6 Quad/Dual/Dual Lite/Solo ARM®Cortex™-A9 core @1GHz/800MHz

RAM

1GB DDR3 for Q/D/DL (Expandable up to 4GB*) 512MB DDR3 for Solo (Expandable up to 2GB*)

Storage

4GB eMMC Flash (Expandable*)

2MB SPI Flash (Expandable*)

On-board Micro SD Slot

Carrier Board:

Storage

SATA 3.0 - 1Port

Standard SD/MMC or

On -board WiFi(WYSAAVDX7) -1 Port*

Communication Interfaces

Gigabit Ethernet - 1 Port

USB 2.0 Host - 2 Ports

USB 2.0 OTG - 1 Port

USB Debug Port (Serial to USB conversion)

UART - 2 Ports

4 Wire Resistive Touch Connector*

CAN - 2 Ports

PCle x 1 Slot

Mini PCle Slot*

- PCIe Interface
- USB Host Interface
- SIM Interface
- SMB Interface

Sensors

3-Axis Accelerometer

Digital e-Compass

Ambient Light Sensor

Altimeter/Barometer

Audio and Video

AC'97 codec- Audio IN/OUT Jacks

TV-IN RCA Jack (NTSC/PAL Input)*

Parallel Camera ZIF Connector- CSI1 (8Bit)

MIPI Camera Connector

LVDS1 - 7" 800x480 Display with Capacitive TP

Backlight PWM Control

HDMI v1.4 - Port

LVDS 2 Connector

On-Board Headers

10 Pin JTAG Header*

SPI Header

4x4 Keypad Interface Header

RTC Coin Cell Holder

120 Pin Expansion Connector Interface

24bpp RGB LCDIF

ESAI

MIPI-DSI

MIPI-CSI

CSI2 (8 Bit)

Memory Interface (Address/Data Muxed)

MLB (Supported only in Automotive CPU)

Operating Temperature: 0 to 50°C

Form Factor: Nano ITX 120mmx120mm

Power Input: 12V @2A DC Input

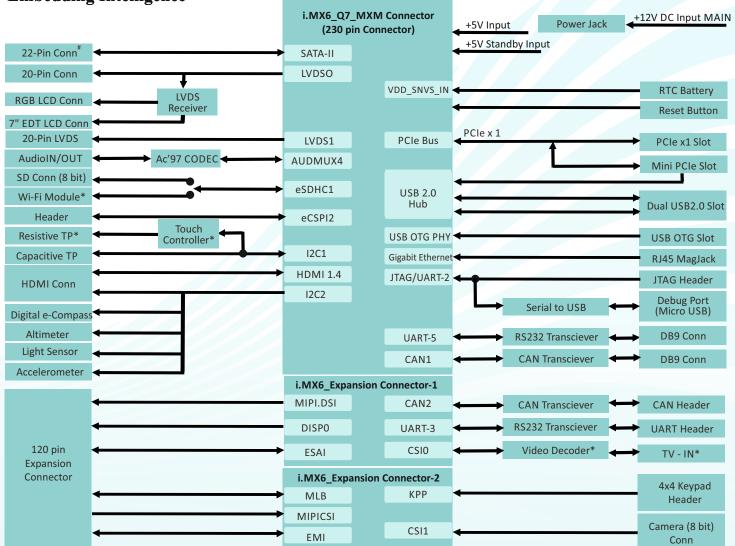
^{*}Optional items are not included in the standard deliverables







i.MX6 Qseven DEVELOPMENT BOARD BLOCK DIAGRAM



[#]Support available only for i.MX6 Quad and Dual CPUs

OS SUPPORT

Linux Kernel 3.0.35 Android 4.3 JB WEC7

DELIVERABLES

iW-RainboW-G15D-Q7 Platform Board Support Packages Power Adapter User Manual

OPTIONAL ADD ON MODULES

Camera Add On Module 24BPP LCD Add On Module Wi-Fi Add On Module 3G and GPS Add On Module

CUSTOM DEVELOPMENT

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

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Ordering the i.MX6 Qseven Development Board

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

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