Development Platform   iW-RainboW-G15D-Q7   

i.MX6 Qseven Development Kit

The Development Platform incorporates Qseven compatible i.MX6 SOM which is based on Freescale’s i.MX6 Series multimedia focused processor and Generic Qseven compatible Development Board. 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.


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:**
- SATA 3.0 - 1Port
- Standard SD/MMC or On-board WiFi(WYSAADVX7) -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
- PCIe x 1 Slot
- Mini PCIe 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
- ESI
- MIPI-DSI
- MIPI-CSI
- CSI2 (8 Bit)
- Memory Interface (Address/Data Muxed)
- MLB (Supported only in Automotive CPU)

**Power Input:** 12V @2A DC Input

*Optional items are not included in the standard deliverables
OS SUPPORT
Linux Kernel 3.0.35
Android 4.3 JB
WEC7

OPTIONAL ADD ON MODULES

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

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

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

Ordering the i.MX6 Qseven Development Board
The board can be ordered online from the iWave Website
http://www.iwavesystems.com/webforms