

# Development Platform RainboW-G7D Q7 Generic Carrier Board

## SPECIFICATIONS

### Display

7" 800x480 TFT LCD  
VGA Port/ TV Out  
HDMI Port \*  
LVDS Display connector\*

### Touch Panel

Resistive Touch  
Capacitive touch\*

### Video Input

Camera Interface\*  
TV IN\*

### Audio

External Audio Codec  
Headphone/ Mic Jacks

### PCIe

PCIe Mini Card\*  
PCIex1 Port \*

### USB

USB2.0 Device - Mini AB connector  
USB2.0 Host 2 ports – Type A Connector

### Serial

UART- DB9 connector

### Storage

SATA Port1 – 7P Connector\*  
SATA Port2 - 22P Connector\*  
Standard SD Slot

### Communication

10/100Mbps Ethernet - RJ45 Jack  
802.11b/g/n Wi-Fi Module\*  
CAN Port - DB9 connector\*

### Power

12V DC Input  
On-board RTC coin Battery

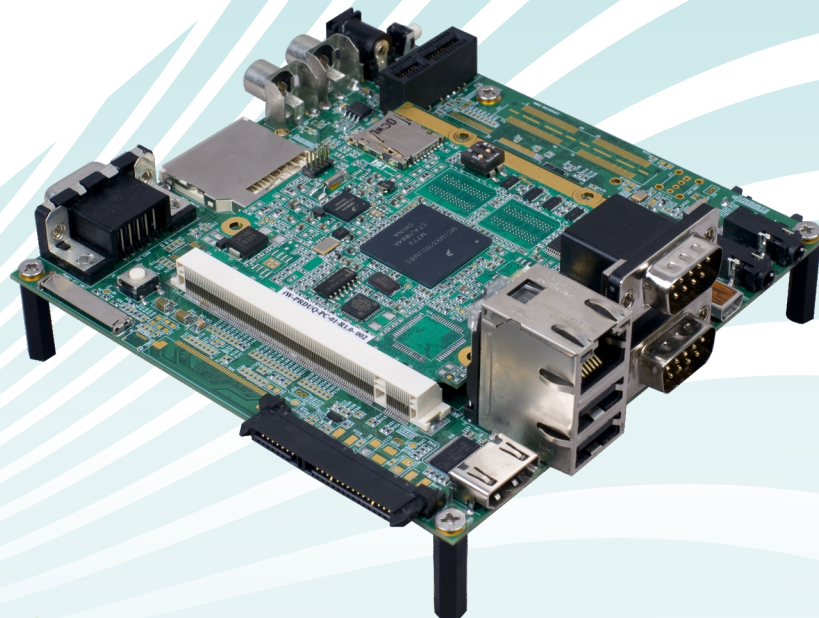
### Form Factor

120mm x 120mm – Nano ITX

### Temperature supported

0 to 60°C

\* Optional



iW-RainboW-G7D is a generic Q7 Carrier board targeted for quick validation of high performance Q7 R1.20 compatible CPU modules. This board has rich set of features including Video IN/ OUT, Audio, Wired/ Wireless communication, PCIe, USB and various serial communication ports. Being a nano ITX form factor with 120mmx120mm size, the board is highly packed with all necessary onboard connectors to validate complete Q7 supported features.

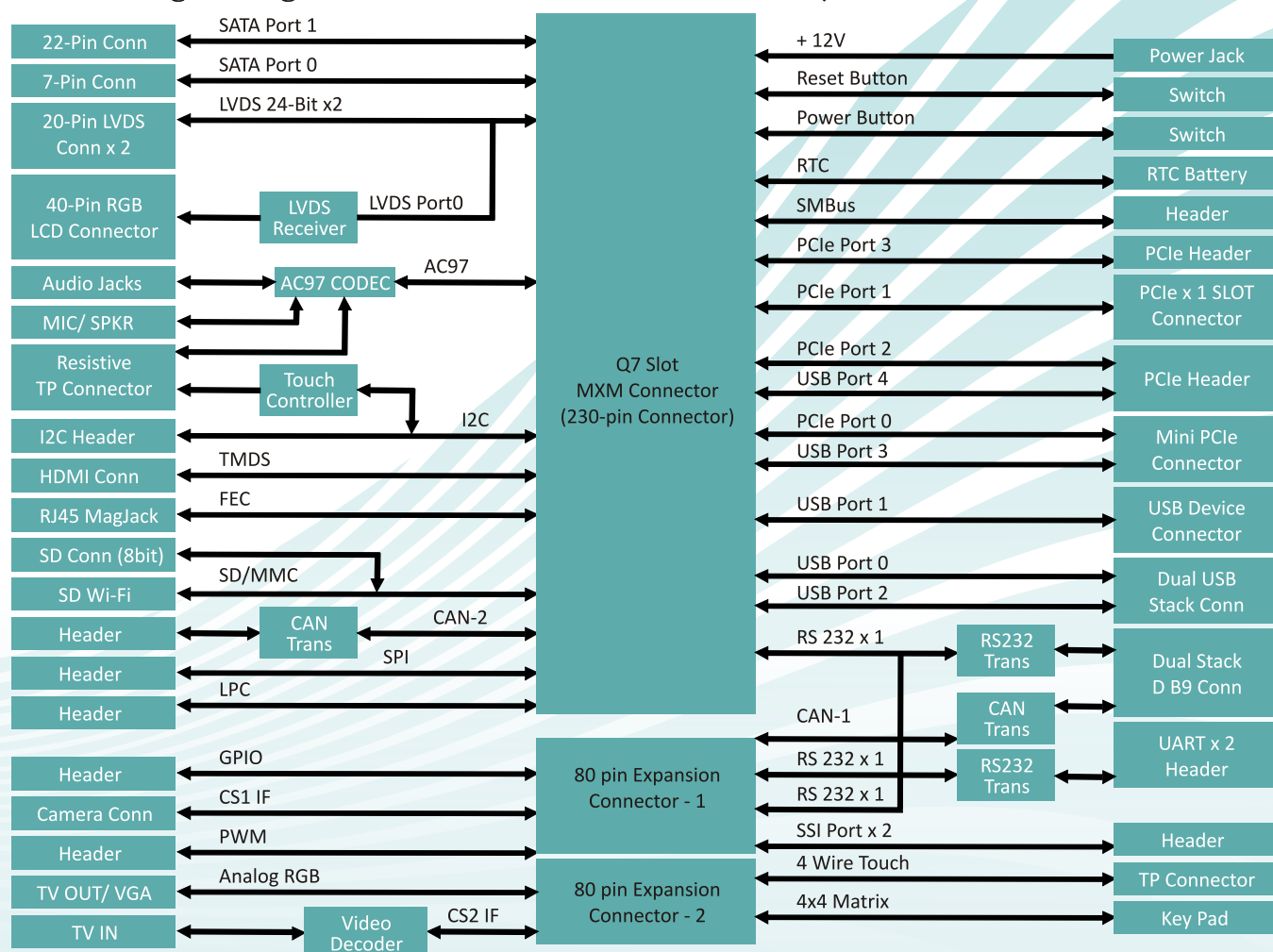
## iW-RainboW-G7D HIGHLIGHTS

- Ideal for quick development
- Shortens product development life cycle
- Quick customization can be done in a very shorter period
- Suitable for validation of any R1.20 Q7 compatible module

## APPLICATIONS :

Industrial/ Medical, Green Energy Controller, Panel PC, Industrial appliance Control, Medical HMI, High-end PDAs, Secure Devices, Automotive In Vehicle Infotainment Systems, Kiosks, POS, General Embedded.

### Q7 Carrier Board BLOCK DIAGRAM



#### OS SUPPORT

WinCE 6.0\*  
Linux 2.6.35\*  
Android 2.3\*  
QNX\*

#### DELIVERABLES

Q7 Carrier Board  
User Manual  
Power Adapter

#### OPTIONAL KITS

Am389x Q7 SOM  
i.MX51 Q7 SOM  
i.MX53 Q7 SOM

#### CUSTOM DEVELOPMENT

BSP Development / OS Porting  
Design review and support  
Custom SOM / Carrier Development

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 properties of their respective owners.*

*\*Optional items not included in the standard deliverables*

#### Ordering the Q7 carrier Board

The board can be ordered online from the iWave Website  
<http://www.iwavesystems.com/enquiry.htm>

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