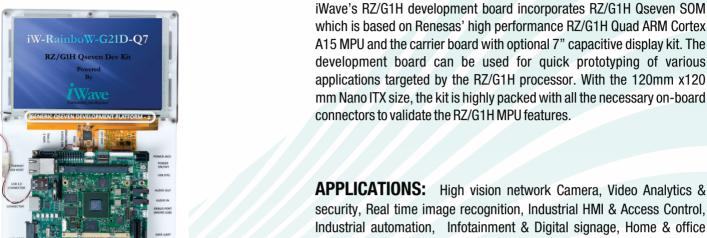


Development Platform iW-RainboW-G21D-Q7

RZ/G1H Q7 Development Kit



APPLICATIONS: High vision network Camera, Video Analytics & security, Real time image recognition, Industrial HMI & Access Control, Industrial automation, Infotainment & Digital signage, Home & office automation, Office equipment & Smart terminals.

iW-RainboW-G21D-Q7 **HIGHLIGHTS**

Quad Cortex-A15 @ 1.4GHz, Quad Cortex-A7 @ 780MHz

PowerVR G6400 3D Graphic core @ 520MHz

USB3.0, Gigabit Ethernet, PCIe, SATA, LVDS IOs

Simultaneous Full HD Encode & Decode

Four channel Video input

7" display Kit with cap touch screen

SPECIFICATIONS

RZ/G1H Qseven SOM :	SD Slot – 1 Port
RZ/G1H Quad A15 @ 1.4GHz + Quad A7 @ 780MHz MPU	7" Display with CAP touch
2GB DDR3 RAM	Audio Codec, In/Out Jack
2MB SPI NOR Flash	Serial Console on USB port
4GB eMMC Flash	Data UART – 1 Port
Gigabit Ethernet PHY	CAN PHY – 1 Port
10/100 Ethernet PHY	IO expansion connectors
HDMI transmitter	Nano ITX Size: 120mm x 120mm
Qseven Carrier Board :	12V, 2A DC Input
SATA – 1 Port ¹	Camera daughter Board⁴:
PCle – 1 Port ¹	8-Bit Camera – 4 Ports⁵
Gigabit Ethernet – 1 Port ²	Optional 16-Bit Camera – 2 Ports ⁵
LVDS display – 2 Ports ³	CAN PHY – 2 nd Port
HDMI display – 1 Port ³	Optional RS232 – 4 Ports
USB3.0 Host – 1 Port	Temperature support : 0°C to +60°C
USB 2.0 Host – 2 Ports	OS Support :
USB 2.0 OTG – 1 Port	Linux 3.10.31

Note1: SATA and PCle are multiplexed in the RZ/G1H MPU. Only one can be supported at a time. SATA is supported in the default configuration

Note2: EtherAVB& VIO is multiplexed in same pins and so either one interface only can be used at a time.

Note3: LVDS 2nd port is multiplexed with HDMI. Only one can be supported at a time. HDMI port is supported in the default configuration

Note4: Camera daughter board is optional feature

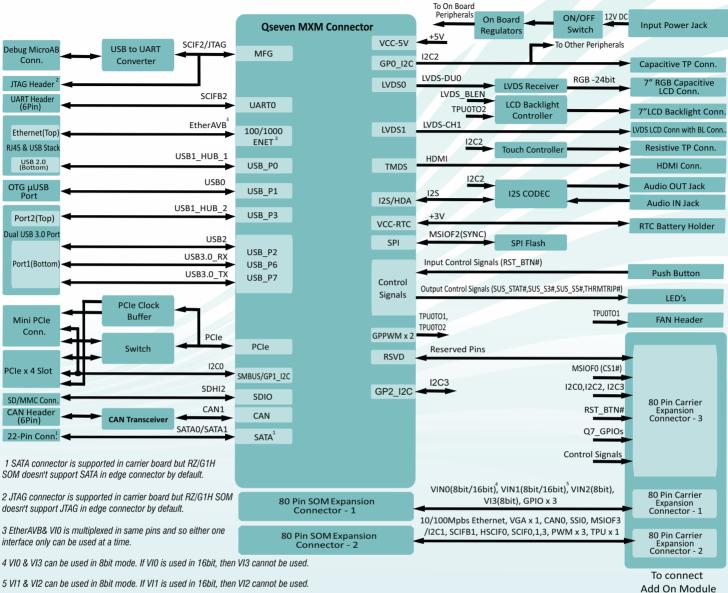
Note5 : Dual 16-Bit Camera ports are multiplexed with the 8-bit camera ports. By default, 8-Bit Camera port is supported.

www.iwavesystems.com





RZ/G1H Development Board - BLOCK DIAGRAM



OS SUPPORT

Linux 3.10.31

DELIVERABLES

RZ/G1H Qseven Development Kit **Board Support Package** Hardware & Software user Manuals

OPTIONAL KITS/Modules

7" LCD Display Kit with Cap touch screen Camera Daughter Board Camera modules

CUSTOM DEVELOPMENT

BSP Development/OS Porting **Custom SOM/Carrier Development** Custom Application/GUI Development **Design Review and 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 NXP, Renesas, Qualcomm, Altera, Intel and TI Processors.

iWave System 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. Ordering the RZ/G1H Oseven Development Kit

*Optional items not included in the standard deliverables.

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners

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

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