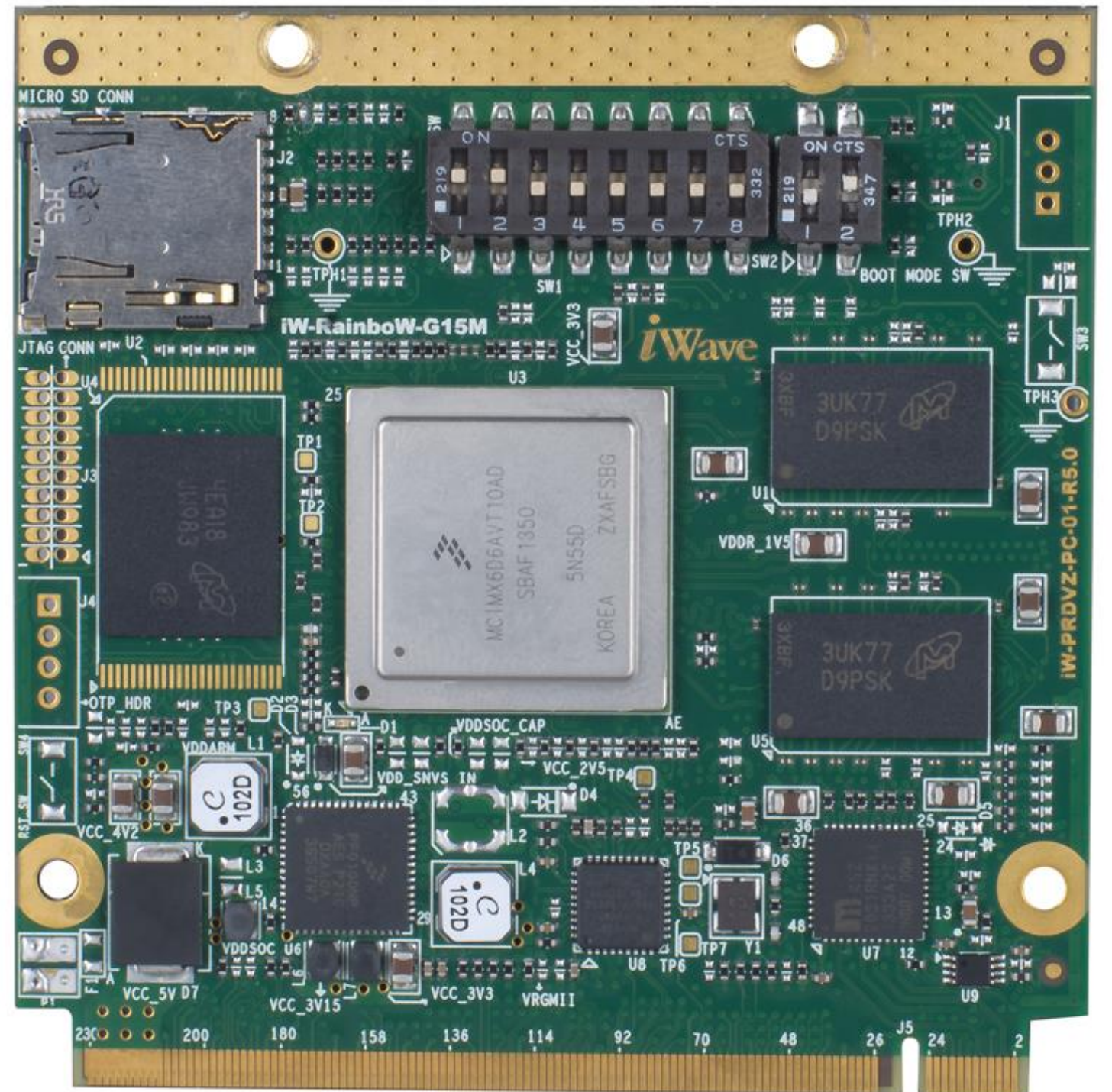## Technical Specifications - i.MX6 Q7 Quad (PMIC) SOM

SOM Orderable Part Numbers: (Samples)
iW-G15M-Q704-3D001G-E004G-LID
iW-G15M-Q704-3D001G-E004G-AID
iW-G15M-Q704-3D001G-E004G-WID

SOM Orderable Part Numbers: (Volume)
iW-G15M-Q704-3D001G-E004G-BIC

Heat Spreader Orderable Part Numbers(Q/D):
iW-HSPALU-CLASLR-Q707

CPU	i.MX6 /1GHz/Cortex A9 Quad core
Memory	1GB DDR3 RAM
	2MB SPI Flash (for boot code)
	4GB eMMC Flash
Q7 Edge Connector	**Q7 Edge Connector Interfaces:** PCIe v2.0 x 1 Lane HDMI v1.4 x 1 port SATA 2.0 x 1 port Gigabit Ethernet x 1 port Dual LVDS display ports USB 2.0 Host x 4 ports USB 2.0 device x 1 port AC97 Audio, 8-Bit SD/MMC, GPIOs CAN, SPI, UART x 2, PWM & I2C ports
Expansion connectors (Not populated by default)	**Expansion Connector Interfaces:** Camera CSI x 2 ports (8-Bit) MIPI CSI & DSI Ports 24 Bit RGB LCD interface UART x 1, 3x3 Key Matrix ESAI, SPDIF, MLB, I2C, GPIO External Memory interface
Temperature	-40ºC to +85ºC
Form factor	Qseven Rel. 2.0 (70mm x 70mm)
Linux 3.10.17 Device Driver support	1GB DDR3 RAM, 4GB eMMC Flash RS232 Serial Console & UART Micro SD x 1, Standard SD x 1 USB Host x 4, USB 2.0 device x 1 Gigabit Ethernet, LVDS (7" LCD), AC97, I2C, SATA, HDMI v1.4, PCIex1, LVDS2, CAN, PWM, Graphic accelerators
Android 4.3 Device Driver support	1GB DDR3 RAM, 4GB eMMC Flash RS232 Serial Console & UART Micro SD x 1, Standard SD x 1 USB Host x 4, USB 2.0 device x 1 Gigabit Ethernet, LVDS (7" LCD), AC97 I2C, SATA, HDMI v1.4, PCIex1 LVDS2, CAN, PWM, Graphic accelerators
WEC7 Device Driver support	1GB DDR3 RAM, 4GB eMMC Flash RS232 Serial Console Micro SD x 1, Standard SD x 1 USB Host x 4, USB 2.0 device x 1 Gigabit Ethernet, LVDS (7" LCD), AC97 I2C, SATA, HDMI v1.4, PCIex1 EP, CAN KITL & USB debug, Active Sync Silverlight support, Graphic accelerators

SOM Deliverables:
1) i.MX6 Q7 SOM module.
2) Hardware & Software User manual
3) Boot code, Linux / Android BSP, Driver source code and Test application. Please contact iWave for WEC7 BSP source
Note1: The SOM module uses automotive qualified Freescale i.MX6 silicon. Device drivers provided are for specific interface chipsets, which are used in iWave's Carrier board.
Note2: Please contact iWave for the volume SOM configuration price with expansion connectors populated
Note3: MAC address for the SOM will not be be pre-programmed. Customer can buy the MAC address from IEEE and program as instructed in the user manual
Note4: The WEC7 OS runtime licenses are not included in the listed SOM price. Please contact Microsoft for WEC7 OS runtime license purchases.

Technical Support:
1) The technical support will be limited to 10 Hours of effort within the first 3 months from the date of delivery for the MOQ of 500 units. The technical support will be through email and restricted to the clarifications related to the deliverables provided by iWave as part of this proposal.
2) Additional technical support / Customization support / Carrier board development, if required, will be at additional costs.

Warranty Terms:
1. Warranty support: From iWave's EMS partner
2. Warranty support for Hardware: 1 Year
3. The product is warranted to be free from defects in materials and workmanship
4. What is not included under warranty:
   a) Product that has been abused, damaged, altered or misused by any person or entity after the product is delivered to the customer.
   b) During Warranty support, Client shall bear To and From shipping charges, Clearance, duties/Taxes, if any.