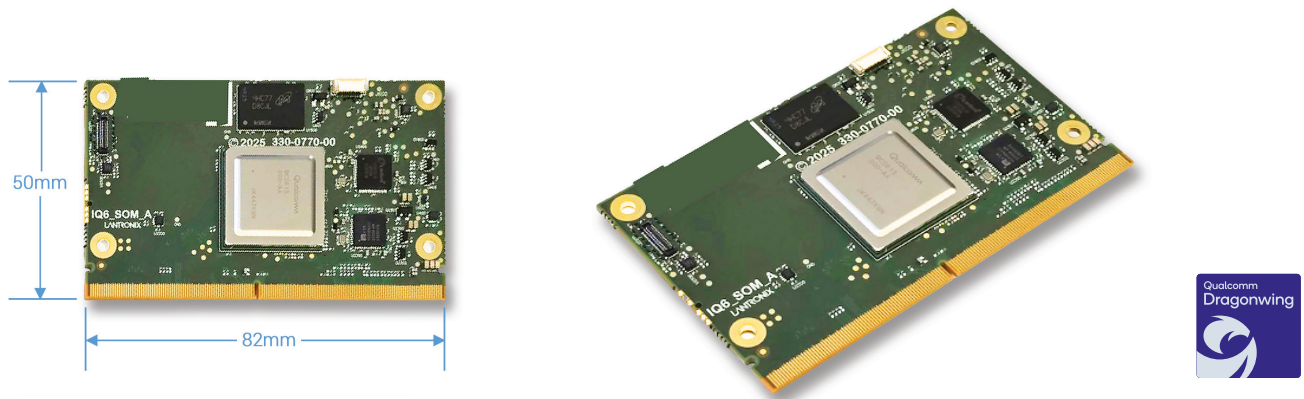


Open-Q™ 615IQ SMARC SOM

Based on Qualcomm® IQ-615 System-on-Chip with Qualcomm Linux



The Open-Q™ 615IQ is based on the Qualcomm® Dragonwing™ IQ-615 processor, which features Qualcomm's powerful image signal processor (ISP) and a heterogeneous computing architecture. The IQ-615's ability to operate in wide thermal junction temperatures ranging from -40° to +105° makes the Open-Q™ 615IQ ideally suited for many industrial-grade use cases, including industrial gateways, controllers, smart controllers, industrial HMIs, and more.

Lantronix offers at least 10 years of longevity for the Open-Q™ 615IQ. Combined with over 20 years of hardware design and software development experience, and 1200+ successful projects, Lantronix will be your long-term partner, ensuring the ongoing success of your product journey.

Key Features

- Qualcomm® IQ-615 SoC
- Up to 8GB LPDDR4x RAM
- Up to 128GB UFS with SDIO storage support
- SMARC form factor
- Qualcomm Linux
- Industrial temperature availability
- Customizable memory and storage options

Applications

- Robotics
- Autonomous Platforms
- Industrial Controllers
- Industrial Surveillance
- Industrial PC

Engineering Services:

We provide a full solution – our unparalleled engineering expertise and product development skills deliver innovative products that are cost-effective and can jumpstart your Go-to-Market timeline.

Our business model offers turnkey product development services, or we can augment your team in specific areas of development. The choice is yours.

Key development expertise in:

- Camera development and tuning
- Voice control
- Machine learning
- Mechanical & RF design
- Thermal & power optimization

IoT product development made easy.



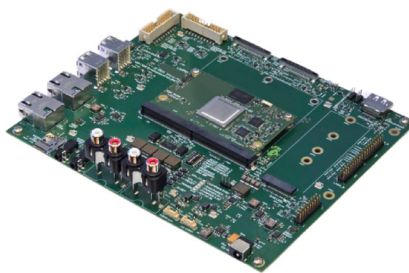
Hardware Specifications:

• Processors	Qualcomm® IQ-615 SoC: Qualcomm® Kryo™ 460: 2x Gold @ 1.9GHz, 6x Silver @ 1.6GHz Qualcomm® Hexagon™	
	Qualcomm® Adreno™ 612 GPU Qualcomm® Spectra™ ISP	Qualcomm® Adreno™ Display Processing unit Trust Zone, Cryptographic Accelerator
• Memory/Storage	Up to 8GB LPDDR4x @ 1555MHz, up to 128GB UFS with SDIO storage support	
• Wireless	Wi-Fi 6 802.11a/b/g/n/ac/ax Dual band 1x1 + Bluetooth 5.2	
• Display Interfaces	1x 4-lane MIPI DSI D-PHY 1.2, up to FHD+ touchscreen support DisplayPort v1.4 at 5.4 Gbps/lane, 21.6 Gbps/port with support for multi stream transport (MST)	
• Camera Interfaces	1x MIPI 2-lane CSI D-PHY 1.2 with CCI I2C control 2x MIPI 4-lane CSI D-PHY 1.2 with CCI I2C control	Qualcomm Spectra 230 supports Bayer RGB, YUV, RCCB, Mono, and it also features improved zzHDR
• Video Performance	Decode	Video decode up to 4K60. Native decode support for H.265 main 10, H.265 main, H.264 high, VP9 profile 2, VP8, and MPEG-2 codecs
	Encode	Video encode up to 1080p60. Native encode for H.265 main, H.264 high, and VP8 codecs
	Dec & Enc	Concurrent 4K30 Decode and 1080p60 Encode
• Audio	The hexagon digital signal processor (DSP) targets up to 1 GHz and with a 512 KB L2 cache Qualcomm® Voice Activation Voice codecs and audio codecs	
• High Speed Connectivity	1x PCIe Gen2 1-lane 1x USB 3.1, 4x USB 2.0	
• I/O Interfaces	4-bit SD 3.0, UART, I2C, SPI, SPI, configurable GPIOs	
• Power/Battery	Power management on SOM	
• Operating Environment	Input voltage: 5V Operating Temperature: -40°C to 85°C available	
• Form Factor	SMARC 82 x 50 mm	

Software:

• OS Support	Qualcomm Linux
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* Based on IQ-615 Chipset Performance, see SOM Release Notes for details on tested configurations and platforms..



Companion Development Kit

Certifications



Purchasing Information:

Part Number	Description
QC0615-3AN-DN	SMARC 8GB LPDDR4x, 128GB UFS
QC0615-3WN-BL	SMARC 4GB LPDDR4x, 64GB UFS, WiFi/BT
QC0615-3WN-DL	SMARC 8GB LPDDR4x 64GB UFS, WiFi/BT
QC0615-3WN-DN	SMARC 8GB LPDDR4x, 128GB UFS, WiFi/BT
QC0615-3WN-DNT	SMARC 8GB LPDDR4x, 128GB UFS, WiFi/BT, TAA
QC0615-3WN-BLT	SMARC 4GB LPDDR4x, 64GB UFS, WiFi/BT, TAA
QC0615-3WN-DLT	SMARC 8GB LPDDR4x, 64GB UFS, WiFi/BT, TAA
LOQ-615IQ-EVK	Open-Q™ 615IQ devkit bundle with 8GB/64GB SOM and accessories

Alternate SOM configurations available by special order (minimum order quantities apply)
- e.g. different memory size, etc. Contact sales to discuss your specific needs today.