

Open-Q™ 615IQ Development Kit



The Open-Q™ 615IQ Development Kit is engineered to support evaluation and prototyping with Lantronix's new industrial SMARC System on Module (SOM) product line. Built around the Qualcomm IQ-615 chipset, this kit highlights key features such as MIPI CSI camera, display, Ethernet, audio, and sensor interfaces. Its SMARC standard form factor makes it ideal for proof-of-concept applications in industrial robotics and control systems. The kit also serves as a reference design, showcasing the unique camera and audio interface capabilities of the SOM.

Key Features

- Qualcomm® IQ615 SoC
- Up to 8GB LPDDR4x RAM
- Up to 128GB UFS with SDIO storage support
- Support SMARC 2.2 SOM
- Qualcomm Linux
- Industrial temperature availability
- Support up to Wi-Fi 6/BT 5.2
- Customizable memory and storage options

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
- AI/ML Application
- Mechanical & RF design
- Thermal & power optimization

IoT product development made easy.



Lantronix Open-Q™ 615IQ Development Kit

Hardware Specifications:

Open-Q™ 615IQ SOM		*See the Open-Q 615IQ product brief for complete details
• 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 DRAM, 2.133GHz, up to 128GB UFS with SDIO storage support	
• Wireless	Pre-certified Wi-Fi/BT, support up to Wi-Fi 6 and Bluetooth 5.2	
Open-Q™ 615IQ SOM Carrier Board		
• Display Interfaces	DisplayPort v1.4 LVDS Connectors; Supporting LVDS panels up to 1920 × 1080p at 60 fps	
• Camera Interfaces	1x MIPI 2-lane CSI D-PHY 1.2 with CCI I2C control 1x MIPI 4-lane CSI D-PHY 1.2 with CCI I2C control	Compatible camera module: Lantronix IMX258 13MP (QC-DB-U10006)
• Audio Interfaces	RCA 2 Channel Audio input RCA 2 Channel Audio output TRS connector Audio input DMIC	
• I/O Interfaces	4× USB 2.0 ports, 1× USB 3.1 Type-C port Micro USB debug UART and serial debug UART connectors MicroSD socket GPIO, I²C, UART, CAN, and JTAG interfaces Digital I/O expansion headers M.2 M-Key connector for PCIe 1-lane for IQ-615 4-lane to SOM connector 2× Gigabit Ethernet interfaces - IQ-615: Ethernet 1 = RGMII, Ethernet 2 = N/A	
• Power	12V input	
• Dimension	200mm x 170mm	

Software:

• OS Support	Yocto Linux
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Lantronix Advantage

- Unique expertise with Qualcomm products
- Addressing small to mid-size customer requirements
- Complete solutions with HW, SW, & Services
- Global TAA/NDAA-compliant manufacturer
- Focused on Edge intelligence with Qualcomm-based AI acceleration
- Qualcomm-Aligned: 100% in sync with QC IIOT Roadmap

Purchasing Information:

LOQ-615IQ-EVK	Open-Q™ 615IQ devkit bundle with 8GB/64GB SOM and accessories
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[Learn more at lantronix.com/615IQ-dev-kit](https://lantronix.com/615IQ-dev-kit)

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