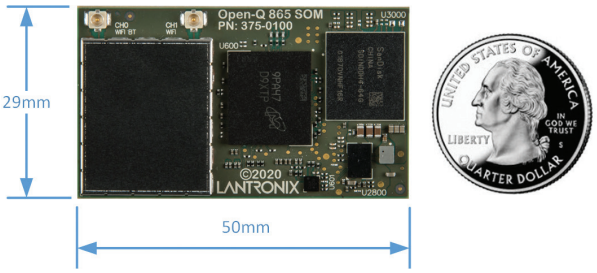
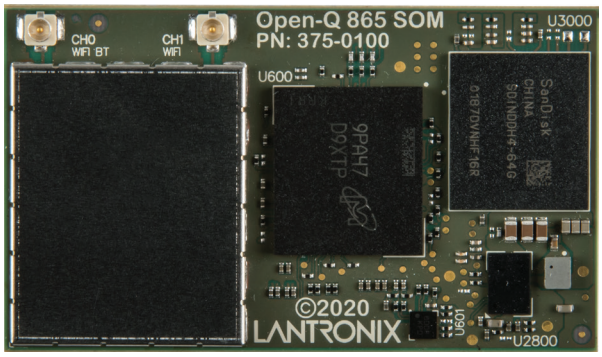
LANTRONIX®

NEW!

Open-Q™ 865XR SOM (System on Module)

Based on the Qualcomm® SXR2130P processor





Horsepower at the Edge

- The 865XR SOM offers the perfect computing core for a variety of leading edge IoT applications
- The ideal solution to accelerate your "time to revenue" on product development
- The Qualcomm® AI Engine provides 2x the performance of the previous generation with up to 15 TOPS

The Open-Q™ 865XR SOM is an ultra-compact (50mm x 29mm) production-ready, pre-certified SOM based on the powerful Qualcomm SXR2130P SoC. The 865XR utilizes Qualcomm® Technologies' heterogenous compute expertise to offer a System-on-Chip with multiple specialized processing cores:

- 5th generation Qualcomm® AI Engine
- Qualcomm Spectra™ ISP, Qualcomm® Adreno™ GPU, and Qualcomm® Hexagon™ DSP
- Power, processing and professional quality imaging
- Coupled with the latest Wi-Fi 6 connectivity, advanced camera features, and many high-speed interfaces

Key Features

- Qualcomm SXR2130P processor
- 6GB LPDDR5 RAM + 64GB UFS 3.1 Flash
- 3x MIPI CSI camera ports
- 2x MIPI DSI display ports
- 1x 2-lane PCIe Gen3 interface
- USB Type-C with DisplayPort v1.4
- Pre-certified Wi-Fi and Bluetooth
- Wi-Fi 6 - 802.11ax 2x2 MU-MIMO Wi-Fi / BT 5.1

Applications

- AI box—multi-stream encode/decode/AI processing
- Video conference systems
- Multi-camera systems
- Machine vision platforms
- Advanced high resolution multi-display systems
- Medical imaging
- Handheld data collectors

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

Qualcomm

LANTRONIX®

Lantronix Open-Q™ 865XR SOM

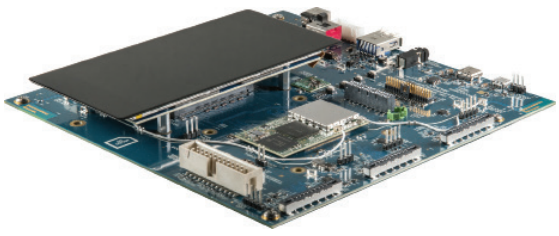
Production Ready
Computing Module

Hardware Specifications:

• **Processors**	Qualcomm® SXR2130P SoC built on 7nm technology: Kryo™ 585 Octa-core CPU: 1Kryo Gold prime @ 2.84 GHz + 3 Kryo Gold @ 2.42 GHz + 4 Kryo Silver @ 1.81 GHz Hexagon DSP with quad Hexagon Vector eXtensions	
	Adreno 650 GPU @ Fmax = 587 MHz Qualcomm Spectra 480 Image Signal Processor Adreno 665 Video Processing unit	Adreno 995 Display Processing unit NPU230 Neural Processing unit SPU240 Secure Processing unit
• **Memory/Storage**	6GB or 8GB LPDDR5 RAM @ 2750MHz, 64GB UFS 2.1 or 128GB UFS 3.0	
• **Wireless**	Pre-certified for FCC, ISED (Canada), RED (EU) 802.11ax 2x2 MU-MIMO + Bluetooth 5.1, Bluetooth Milan ready	
• **Display Interfaces**	Up to three 4K displays (1 internal display through DSI and 2 external displays through DisplayPort) 2x 4-lane MIPI DSI D-PHY 1.2, up to 5040 × 2160 @ 60 fps (or 120 Hz in VR mode) + touchscreen support DisplayPort v1.4 on USB Type-C, at 8.1 Gbps/lane, with USB3 and USB2 data concurrency	
• **Camera Interfaces**	3x 4-lane MIPI CSI camera ports + CCI I2C control	Qualcomm Spectra 480 ISP supporting multiple concurrent cameras 64 MP 30 fps ZSL with a dual ISP
• **Video Performance**	Video decode up to 4K240/8K60 Video encode up to 4K120/8K30	Concurrent 4K60 decode & 4K30 encode for wireless display
• **Audio**	Supports WCD938x high fidelity audio codec and WSA881x speaker amp on carrier board Dedicated Hexagon audio DSP SoundWire, MI2S, DMIC, TDM/PCM interfaces for audio devices on carrier board	
• **High Speed Connectivity**	1x PCIe Gen3 2-lane 1x USB 3.1 with support for Type-C + DisplayPort v1.4 with USB SS data concurrency 1x USB 3.1 Type-A	
• **I/O Interfaces**	4-bit SD 3.0, UART, I2C, I3C, SPI, configurable GPIOs, sensor I/O to dedicated Hexagon sensor DSP	
• **Power/Battery**	Power management and battery charging solution on SOM	
• **Operating Environment**	Input voltage: 3.7V nominal Operating Temperature:-25°C to +85°C Tc (component case temperature)	
• **Form Factor**	50mm x 29mm with 2x 100-pin + 1x 120-pin board to board connectors	

Software:

• **OS Support**	Android™ 10 — Note that all hardware features may not be supported by SW



Companion Development Kit Available Separately

Purchasing Information:

• **Open-Q™ 865XR SOM (6+64GB)**	PN: QC-DB-U10004
• **Open-Q™ 865XR SOM (8+128GB)**	PN: QC-DB-U10004A

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.

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Certifications

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