

Open-Q™ 865XR SOM Development Kit

Based on the Qualcomm® SXR2130P processor



The Open-Q™ 865XR SOM Development Kit is a versatile, easy-to-use, exposed board platform, powered by our ultra-compact, production-ready, Open-Q™ 865XR SOM. The SOM utilizes Qualcomm® Technologies' heterogenous compute expertise to offer a System-on-Chip with multiple specialized processing cores for powerful AI processing, image and graphics processing, and audio processing.

The development kit provides the ideal starting point for evaluating the Open-Q™ 865XR SOM or developing next generation embedded and IoT devices. The platform consists of Lantronix's Open-Q™ 865XR SOM, an open-frame carrier board exposing all the available I/O, and a range of accessories to fast track your product development.

Key Features

- Powered by micro-sized (50x29mm) Open-Q 865XR SOM
- Open-frame Mini-ITX Form-factor carrier board for evaluation and development
- Numerous I/O and connectivity options
- Optional LCD/touchscreen and cameras
- Wi-Fi and Bluetooth antennas on carrier board
- Android™ 10



Open-Q™ 865XR SOM

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

Lantronix Open-Q™ 865XR SOM Development Kit

Hardware Specifications:

Open-Q™ 865XR SOM		*See the Open-Q 865XR SOM product brief for complete details
• Processors	Qualcomm® SXR2130P built on 7nm technology: Kryo™ 585 Octa-core CPU, Hexagon™ DSP, Adreno™ 650 GPU, Spectra™ 480 ISP, Adreno 665 VPU	
• Memory/Storage	6GB LPDDR5 SDRAM at 2750MHz, 64GB UFS Flash Storage	
• Wireless	802.11ax 2x2 MU-MIMO + Bluetooth 5.1, Bluetooth Milan ready	
• Power Management	Qualcomm® power management and battery charging on SOM	
Open-Q™ 865XR SOM Carrier Board		
• Display Interfaces	DisplayPort v1.4 on USB Type-C, at 8.1 Gbps/lane, with USB3 and USB2 data concurrency 2x 4 lane MIPI DSI connector for optional LCD / Touch panel accessory or custom display adapters	
• Camera Interfaces	3x 4-lane MIPI CSI with connectors to mate to optional camera accessories	
• Audio Interfaces	Qualcomm® WCD9385 Hi-Fi audio codec module on carrier board, with 3.5mm headset jack (stereo out + mic in) Additional audio expansion: Analog out header, Analog in header, digital I/O header (SoundWire/DMIC/MI2S/PDM)	
• I/O Interfaces	2 USB ports: 1x USB3.1 Type-C + DisplayPort, 1x USB 3.1 Type-A host 1x PCIe Gen3 2-lane M.2 socket, microSD card socket Debug UART with serial USB I/O expansion headers for sensor board, UART, I2C, SPI, configurable GPIOs	
• Wireless	Dual Wi-Fi/BT PCB antennas on carrier board	
• Power Input	Input: 12V/3A (adapter included) or single-cell Li-Ion battery (not included)	
• Form Factor	SOM: 50mm x 29mm, Carrier Board: Mini-ITX 170mm x 170mm	

Software:

• OS Support	Android™ 10 – Note that all hardware features may not be supported by SW.
---------------------	---



Optional Display and Camera

Development Kit includes: Carrier board, 865XR SOM (6+64GB), ST Micro sensor board, 12V power supply, Quick Start Guide, access to full documentation, SW updates, and basic development kit support.

Purchasing Information:

• Open-Q™ 865XR SOM Dev Kit	PN: QC-DB-U10003
• Open-Q™ 865XR SOM (6+64GB)	PN: QC-DB-U10004
• Open-Q™ 865XR SOM (8+128GB)	PN: QC-DB-U10004A
• Open-Q™ LCD	PN: QC-DB-G00005
• Open-Q™ IMX258 Camera	PN: QC-DB-U10006

Contact Information:

Americas

800.422.7055
sales@lantronix.com
www.lantronix.com
NASDAQ: LTRX

Europe

+31 (0) 76.52.3.6.74 4
EMEA@lantronix.com

Asia/Pacific/Japan

+852 3428.2338
asiapacific_sales@lantronix.com
China: +86.21.6237.8868
Shanghai@lantronix.com
India: +91 994-551-2488
sales_india@lantronix.com
Indonesia: +91 994-551-2488
sales_indonesia@lantronix.com
Japan: +81.8.50.1354.6201
sales_japan@lantronix.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Development Boards & Kits - Other Processors](#) category:

Click to view products by [Intrinsyc](#) manufacturer:

Other Similar products are found below :

[EVB-MEC1418MECC](#) [20-101-1252](#) [CC-ACC-18M433](#) [STM8S/32-D/RAIS](#) [RTK0EN0001D01001BZ](#) [MAXQ622-KIT#](#)
[YR0K50571MS000BE](#) [QB-R5F104PJ-TB](#) [CC-ACC-ETHMX](#) [OV-7604-C7-EVALUATION-BOARD](#) [SK-AD02-D62Q1747TB](#) [SK-BS01-D62Q1577TB](#) [ST7MDT1-EMU2](#) [GROVE BASE KIT FOR RASPBERRY PI](#) [CY8CKIT-143A](#) [RASPBERRY PI PICO](#) [EK-MPC5744P](#)
[KITAURIXTC234TFTTOBO1](#) [ENW89854AXKF](#) [ENWF9201AVEF](#) [QB-R5F104LE-TB](#) [LV18F V6 64-80-PIN TQFP MCU CARD EMPTY](#)
[LV-24-33 V6 44-PIN TQFP MCU CARD EMPTY](#) [LV-24-33 V6 64-PIN TQFP MCU CARD EMPTY](#) [LV-24-33 V6 80-PIN TQFP 1 MCU](#)
[CARD EMPTY](#) [32X32 RGB LED MATRIX PANEL - 6MM PITCH](#) [3.3 - 5 VTRANSLATOR](#) [READY FOR XMEGA CASING \(WHITE\)](#)
[RELAY4 BOARD](#) [ETHERNET CONNECTOR](#) [RFID CARD 125KHZ - TAG](#) [RFID READER](#) [RFM12B-DEMO](#) [MAROON](#) [3G CLICK](#)
[\(FOR EUROPE AND AUSTRALIA\)](#) [MAX232](#) [MAX3232 BOARD](#) [ARTY S7-50](#) [TINKERKIT HALL SENSOR](#) [TOUCHPANEL](#)
[TOUCHPANEL CONTROLLER](#) [MIKROBOARD FOR AVR WITH ATMEGA128](#) [MIKROBOARD FOR PSOC WITH CY8C27643](#)
[MIKROBUS CAPE](#) [MIKRODRIVE](#) [MIKROETH 100 BOARD](#) [MIKROLAB FOR 8051 L](#) [MIKROPROG TO ST-LINK V2 ADAPTER](#)
[BANANA PI GPIO EXTEND MODULE](#) [BATTERY BOOST SHIELD BOARD](#)