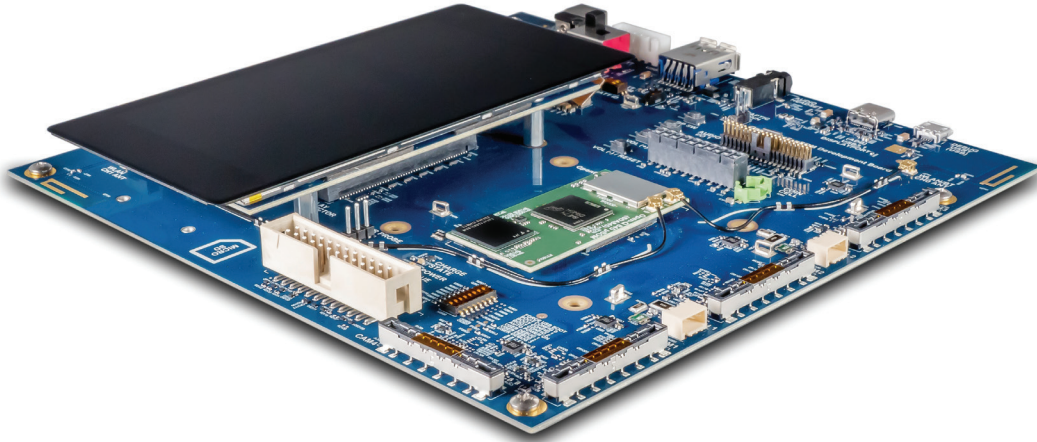


Open-Q™ 845 μSOM Development Kit

Based on the Qualcomm® SDA845 SoC

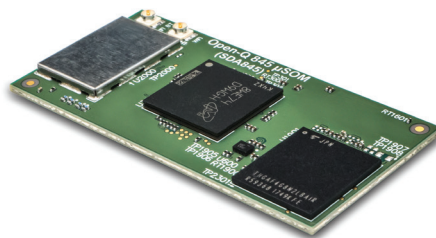


Lantronix's Open-Q™ 845 μSOM Development Kit is a versatile, easy-to-use, exposed board platform, powered by our ultra-compact, production-ready, Open-Q™ 845 μSOM. The 845 μSOM is based on the powerful Qualcomm® SDA845 SoC, one of their most powerful IoT chipsets. With new processing capabilities, on-device AI powers, and generous I/O, the 845 μSOM is ideal for powering the most advanced robotics, drones, cameras, and embedded IoT devices.

The development kit provides the ideal starting point for evaluating the Open-Q™ 845 μSOM or developing next generation embedded and IoT devices. The platform consists of Lantronix's Open-Q™ 845 μSOM, an open-frame carrier board exposing all the available I/O, and a range of accessories to fast track your product development.

Key Features

- Qualcomm® SDA845 SoC
- Powered by micro-sized (50x25mm) Open-Q 845 μSOM
- 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, Yocto Linux®



Open-Q™ 845 μSOM

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™ 845 μSOM Development Kit

Hardware Specifications:

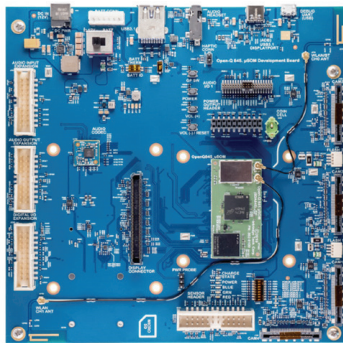
Open-Q™ 845 μSOM		*See the Open-Q 845 μSOM product brief for complete details
• Processors	Qualcomm® SDA845 built on 2nd-Gen 10nm technology: Kryo™ 385 Quad-core CPU, Hexagon™ 685 DSP, Adreno™ 630 GPU	
• Memory/Storage	4GB or 6GB dual-channel high-speed LPDDR4X SDRAM at 1866MHz + 32GB or 64GB UFS Flash Storage	
• Wireless	Wi-Fi 802.11a/b/g/n/ac 2.4/5Ghz 2x2 MU-MIMO (WCN3990) + Bluetooth 5.x	
• Power Management	Qualcomm® PM845 + PM8998 + PM8005 power management and battery charging on SOM	

Open-Q™ 845 μSOM Carrier Board

• Display Interfaces	DisplayPort v1.4 on USB Type-C, up to 4K60 with USB 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 + 1x 2-lane MIPI CSI with connectors to mate to optional camera accessories
• Audio Interfaces	Qualcomm® WCD9340 Hi-Fi audio codec module on carrier board, with 1x 3.5mm headset jack (stereo out + mic in) Additional audio expansion: Analog output header, Analog input header, digital I/O header (SLIMBus/I2S/PDM)
• I/O Interfaces	2 USB ports: 1x USB3.1 Type-C + DisplayPort v1.4 with USB data concurrency, 1x USB 3.1 Type-A host 1x PCIe Gen3 1-lane, microSD card socket I/O expansion headers with 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 25mm, Carrier Board: Mini-ITX 170mm x 170mm

Software:

• OS Support	Android™ 10, Linux OS based on Yocto Rocko, kernel v4.9 * Note that all hardware features may not be supported by all SW — see latest SW release notes for details.
--------------	--



Optional Display and Camera

Development Kit includes: Carrier board, 845 μSOM (4+32GB), 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™ 845 μSOM Dev Kit	PN: QC-DB-P10003
• Open-Q™ 845 μSOM (4+32GB)	PN: QC-DB-P10004
• Open-Q™ 845 μSOM (6+64GB)	PN: QC-DB-P10004A
• Open-Q™ LCD	PN: QC-DB-G00005
• Open-Q™ 13MP Camera	PN: QC-DB-I10006

Contact Information:

Americas

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

Europe

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

Asia/Pacific/Japan

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

© 2020 Lantronix, Inc. All rights reserved. Lantronix is a registered trademark of Lantronix, Inc. in the U.S. and other countries. Open-Q is a trademark of Lantronix, Inc. Qualcomm SDA845, Qualcomm Adreno, Qualcomm Hexagon, and Qualcomm Kryo are products of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm, Adreno, Hexagon, and Kryo are trademarks of Qualcomm Incorporated, registered in the United States and other countries. All other trademarks are the property of their respective owners. Specifications subject to change without notice. Not all features listed may be supported in software.
Open-Q 845 μSOM Dev Kit MPB-00106 Rev A

LANTRONIX®