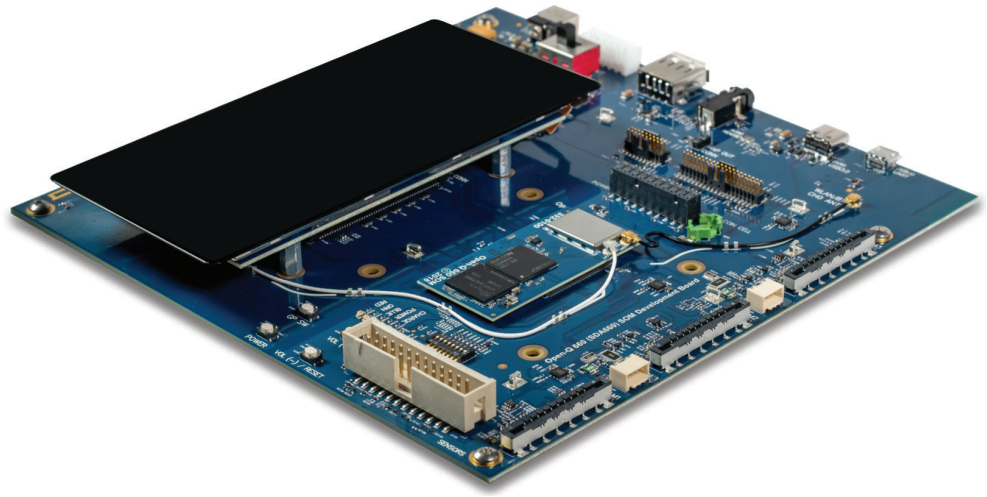
LANTRONIX®

Open-Q™ 660 µSOM Development Kit

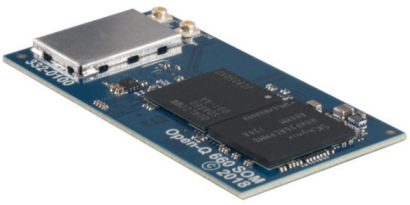
Based on the Qualcomm® SDA660 SoC



Lantronix's Open-Q™ 660 µSOM Development Kit is a cost-effective, high performance, exposed board platform powered by the advanced Qualcomm® SDA660 SoC on our ultra-compact "micro SOM" form factor. The Development Kit is ideal for evaluation of the Open-Q™ 660 µSOM as well as jump-starting development of advanced, intelligent, embedded and IoT products. It supports our optional Open-Q™ LCD / touch panel, optional 13MP camera module, and has many GPIO, sensor, audio, and other expansion interfaces.

Key Features

- Qualcomm® SDA660 SoC
- Powered by ultra-compact (50x25mm) Open-Q 660 µSOM
- Open-frame Mini-ITX Form-factor Carrier Board (170x170mm)
- USB Type-C with VESA DisplayPort video output
- Android™ 9



Open-Q™ 660 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

Qualcomm

LANTRONIX®

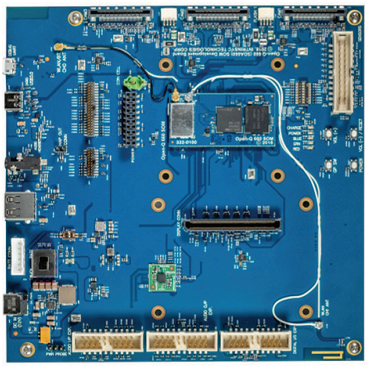
Lantronix Open-Q™ 660 µSOM Development Kit

Hardware Specifications:

Open-Q™ 660 µSOM	*See the Open-Q 660 µSOM product brief for complete details
• **Processor**	Qualcomm® SDA660, octa-core Kryo™ 260 CPU built on 14nm technology Qualcomm® Hexagon™ 680 DSP, Qualcomm® Adreno™ 512 GPU
• **Memory/Storage**	4GB dual-channel high-speed LPDDR4X SDRAM at 1866MHz + 32GB eMMC Flash in combo eMCP chip
• **Wireless**	Wi-Fi 802.11a/b/g/n/ac 2.4/5Ghz 2x2 MU-MIMO (WCN3990) with 5Ghz external PA & U.FL antenna connector Bluetooth 5.x
Open-Q™ 660 µSOM Carrier Board	
• **Display Interfaces**	2x 4-lane MIPI DSI on display connector for optional LCD / Touch Panel to mount on carrier board VESA DisplayPort on USB Type-C connector, for up to 4K30 or 2K60 video output
• **Camera Interfaces**	Qualcomm® Spectra™ dual 14-bit ISP 3x MIPI CSI camera connectors for optional camera accessories
• **Video**	Video Capture up to 4K at 30fps, Video Playback 4K 30fps, H.264 (AVC), VP8
• **Audio Interfaces**	Qualcomm® WCD9335 Audio Codec module on Carrier Board 1x Stereo headset jack with mic input 20pin Audio Input expansion header, 3x analog in, 3x digital in 20pin Audio Output expansion header, 5x analog out, 1x digital out
• **I/O Interfaces**	1x USB3.0 Type-C with DisplayPort video out, 1x USB2.0 Type-A Host, microSD card socket Multiple BLSP ports (GPIO, UART, SPI, I2C buses), Sensor header, LED driver outputs
• **Power Input**	Input 12V/3A (power adapter included), or single-cell Li-ion battery (not included)
• **Size**	SOM: 50mm x 25mm, Carrier Board: Mini-ITX 170mm x 170mm with on-board mounting for optional LCD panel

Software:

• **OS Support**	Android™ 9 — Note that all hardware features may not be supported by SW — see latest SW release notes for details



Optional Display and Camera

Development Kit includes: Carrier board, SOM, 12V power supply, Quick Start Guide, access to full documentation, SW updates, and basic development kit support.

Purchasing Information:

• **Open-Q™ 660 µSOM Dev Kit**	PN: QC-DB-N10003
• **Open-Q™ 660 µSOM**	PN: QC-DB-N10004
• **Open-Q™ LCD / Touch panel**	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 SDA660, Qualcomm Adreno, Qualcomm Hexagon, Qualcomm Kryo, and Qualcomm Spectra are products of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm, Adreno, Hexagon, Kryo, and Spectra 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 660 µSOM Dev Kit v2.0

LANTRONIX®