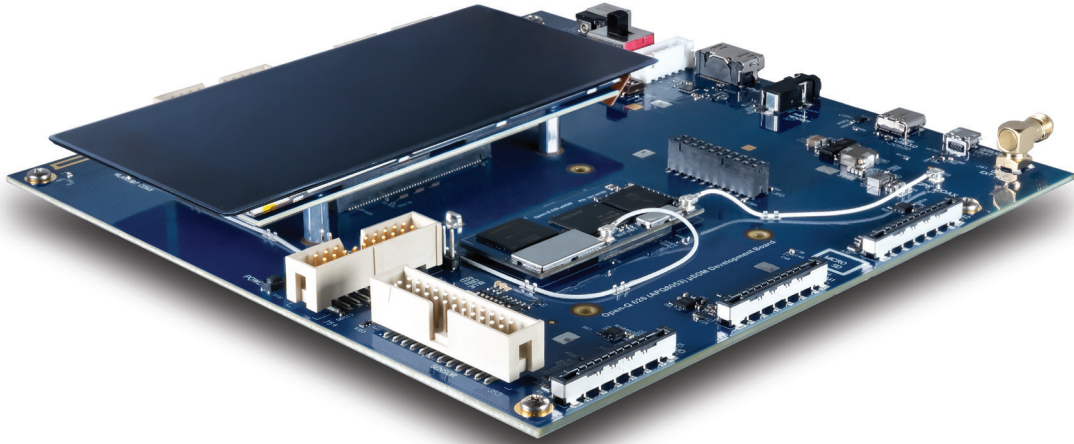


# Open-Q™ 626 μSOM Development Kit

Based on the Qualcomm® APQ8053-Pro SoC

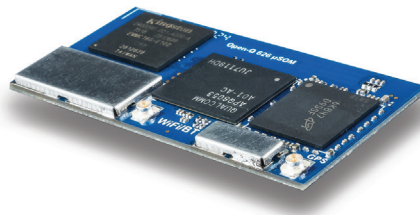


Lantronix's Open-Q™ 626 μSOM Development Kit is a cost-effective, feature rich, camera tuned, exposed board platform powered by our Open-Q™ 626 μSOM (micro System on Module) that is based on the Qualcomm® APQ8053-Pro SoC.

The Development Kit is ideal for evaluation of the Open-Q 626 μSOM as well as jump-starting development of connected camera devices or other high performance embedded and IoT products. The Dev Kit supports our optional LCD or 1080p HDMI out, 4K Ultra HD H.264/H.265 encode and decode, up to 24MP cameras, mic inputs and stereo outputs.

## Key Features

- Qualcomm® APQ8053-Pro SoC
- Powered by micro-sized (50x25mm) Open-Q 626 μSOM
- Mini-ITX Form-factor Carrier Board (170x170mm)
- HDMI output, USB Type-C, 3 camera connectors
- Exposed I/O for evaluation and proof of concept work
- Android™ 10, Android™ 9, Yocto Linux®



Open-Q™ 626 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



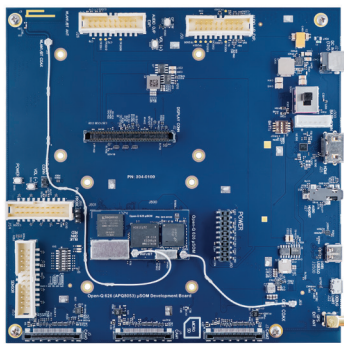
# Lantronix Open-Q™ 626 μSOM Development Kit

## Hardware Specifications:

Open-Q™ 626 μSOM		*See the Open-Q 626 μSOM product brief for complete details
• <b>Processor</b>	Qualcomm® APQ8053-Pro built on 14nm technology Octa-Core 64-bit ARM® Cortex™ A53 2.2GHz, Qualcomm® Adreno™ 506 GPU, Qualcomm® Hexagon™ DSP	
• <b>Memory/Storage</b>	2GB LPDDR3 RAM, 16GB eMMC Flash	
• <b>Wireless</b>	Pre-certified (FCC/IC) Wi-Fi 802.11b/g/n/ac 2.4/5Ghz (WCN3680B), Bluetooth 4.2 + BLE	
• <b>Location Services</b>	GPS, GLONASS and Compass Receiver (WGR7640) with U.FL antenna connector	
Open-Q™ 626 Carrier Board		
• <b>Display Interfaces</b>	HDMI Output or optional LCD / Touch Panel Up to 1080p Full HD LCD 60fps Up to 1080p HDMI Type A Output	
• <b>Camera Interfaces</b>	Up to 24MP with 3x 4-lane MIPI CSI and dual ISPs	
• <b>Video</b>	Video Capture up to 4K Ultra HD at 30fps, Video Playback 4K Ultra HD, H.264 (AVC) and H.265 (HEVC)	
• <b>Audio Interfaces</b>	Integrated audio codec (PM8953) with 1x Stereo headset jack including mic Additional Audio I/O Headers: 1x mono speaker, 1x mono earpiece output 3x analog mic inputs, 1x stereo digital mic input 2x I2S buses for additional external audio devices	
• <b>I/O Interfaces</b>	1x USB3.0 Type C, multiple BLS ports (GPIO, UART, SPI, I2C buses), Haptics output, LED driver outputs, microSD card socket, Wi-Fi/BT PCB antenna, GNSS PCB antenna, external GNSS antenna connector	
• <b>Power Input</b>	Input 12V/3A or single-cell Li-Ion battery (not included)	
• <b>Size</b>	SOM size: 50mm x 25mm	Carrier Board size: Mini-ITX 170mm x 170mm

## Software:

• <b>OS Support</b>	Android™ 10, Android™ 9, Android™ 8, Android™ 7, OpenEmbedded Yocto Linux® *Note that all hardware features may not be supported by all SW versions – see latest SW release notes for details
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Optional Display and Camera

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

## Purchasing Information:

• <b>Open-Q™ 626 Dev Kit</b>	PN: QC-DB-M00003
• <b>Open-Q™ 626 μSOM</b>	PN: QC-DB-M00004
• <b>Open-Q™ LCD Panel</b>	PN: QC-DB-G00005
• <b>Open-Q™ 13MP Camera</b>	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

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