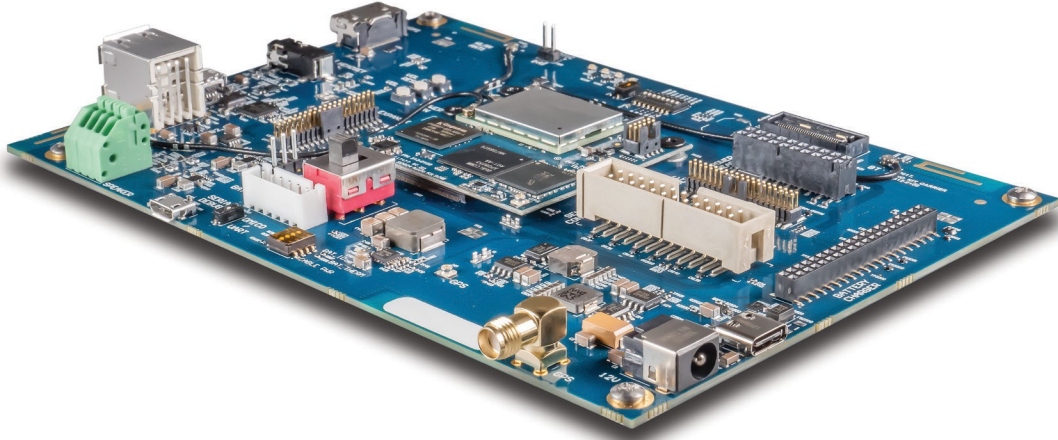


Open-Q™ 624A Development Kit

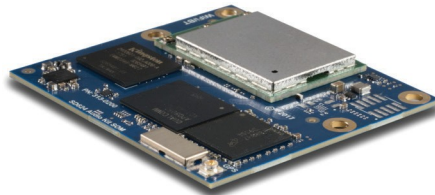
Based on the Qualcomm® APQ8053-Lite SoC



Lantronix's Open-Q™ 624A Development Kit is a cost-effective, feature rich, exposed board platform powered by our Open-Q™ 624A SOM (System on Module), based on the APQ8053-Lite SoC from Qualcomm® Technologies, Inc. The dev kit is ideal for evaluation of the Open-Q™ 624A SOM as well as jump-starting development of AI-enabled home hub products requiring tasks such as video conferencing, remote video monitoring, movie and video streaming. It supports audio with a microphone array and speaker amp on the development board, as well as video with the optional camera and LCD/touch panel accessories.

Key Features

- 2x Wi-Fi + 1x BT Antennas for diversity on carrier board
- 8x Digital Mics on carrier board
- Stereo speaker amps on carrier board
- 2x MIPI CSI camera connectors
- Generous I/O expansion headers
- Android™ 8 Oreo™



Open-Q™ 624A 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

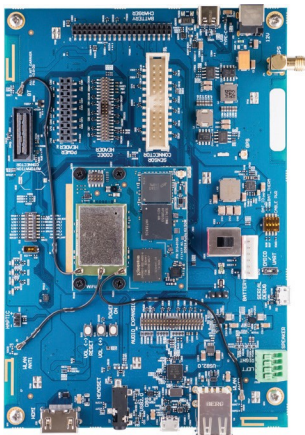
IoT Product Development made easy



Lantronix Open-Q™ 624A Development Kit

Hardware Specifications:

Open-Q™ 624A SOM		*See the Open-Q 624A SOM product brief for complete details
• Processor	Qualcomm® APQ8053-Lite built on 14nm technology Octa-Core 64-bit ARM® Cortex™ A53 1.8GHz, Qualcomm® Adreno™ 506 GPU, Qualcomm® Hexagon™ DSP	
• Memory/Storage	2GB LPDDR3 RAM, 32GB eMMC Flash	
• Audio	Qualcomm® Hi-Fi audio codec on SOM (WCD9335)	
• Wireless	Pre-certified Wi-Fi/BT module - 802.11a/b/g/n/ac, 2x2 MU-MIMO, 2.4/5Ghz, Bluetooth 4.2 + BLE (QCA9379-3)	
• Location Services	GPS, GLONASS, Compass (WGR7640) w/ antenna connector	
Open-Q™ 624A Carrier Board		
• Display Interfaces	1x 4-lane MIPI DSI connector for optional LCD/touchscreen, LCD up to 1080p Full HD 60fps	
• Camera Interfaces	2x 4-lane MIPI CSI camera connectors	
• Video	Video Capture up to 1080p at 90fps, Video Playback up to 1080p at 90fps, H.264 (AVC) and H.265 (HEVC)	
• Audio Interfaces	Qualcomm® stereo speaker amps (WSA8815) Stereo speaker terminals 1x 3.5mm headset interface 8x digital microphones on carrier board	Analog and digital audio expansion headers: 4x analog mic inputs + 8x digital mic inputs 1x stereo line output I2S/SLIMBUS interface for external audio devices
• I/O Interfaces	1x USB3.0 Type C, Debug UART USB interface, Sensor expansion header, GPIO expansion header (GPIO, UART, SPI, I2C buses), Haptics output	
• Wireless Antennas	2x Wi-Fi PCB antennas (2x2 MIMO) + separate Bluetooth PCB antenna for isolation GNSS receiver front-end LNA/BPF + PCB antenna	
• Operating Environment	Power input: 12V/3A from included power adapter SOM size: 50mm x 46.5mm	Carrier Board size: 170mm x 115mm
Software:		
• OS Support	Android™ 8 Oreo™ *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 (with 32GB eMMC), 12V power supply, Quick Start Guide, access to full documentation, SW updates, and basic development kit support.

Purchasing Information:

• Open-Q™ 624A Dev Kit	PN: QC-DB-M10023A
• Open-Q™ 624A SOM	PN: QC-DB-M10032
• Open-Q™ 2100 LCD	PN: QC-DB-J00005
• 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