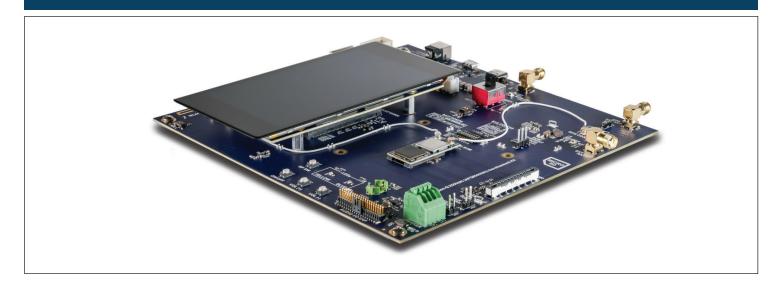


Open-Q[™] 2500 Development Kit

Based on the Qualcomm[®] Snapdragon Wear™ SDW2500 platform



Lantronix's Open-Q™ 2500 Development Kit is an open frame kit using our ultra-compact (31.5 x 15 mm), production-ready Open-Q™ 2500 SOM, a computing module powered by the Qualcomm® Snapdragon Wear™ SDW2500 platform. The Open-Q™ 2500 SOM combines critical elements for wearable device innovation: high performance, small size, low power, integrated sensor support, and seamless connectivity. The SOM is designed to meet the needs of a range of Android™ based wearable devices including pet, children, and elderly trackers, high-end fitness trackers, smartwatches, connected headsets, smart eyewear, and more.

Key Features

- Qualcomm[®] Snapdragon Wear[™] SDW2500 (APQ8009W)
- Powered by ultra-small Open-Q[™] 2500 SOM
- Open-frame Mini-ITX Form-factor carrier board for evaluation and development
- Numerous I/O and connectivity options
- · Optional LCD/touchscreen
- Optional camera
- Optimized Android[™] for Wearables



Open-Q™ 2500 SOM

Qualcoww snapdragon wear 2500 platform



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[™] 2500 Development Kit

Hardware Specifications:

Open-Q™ 2500 SOM	*See the Open-Q 2500 SOM product brief for complete details	
Processors	Snapdragon Wear™ 2500 (APQ8009W) optimized for wearables Quad-Core ARM Cortex A7 (32-bit) at 1.094GHz	
Memory/Storage	PoP memory: 1GB LPDDR3 RAM, 8GB eMMC Flash	
Wireless	Wi-Fi 802.11b/g/n (WCN3620) w/ U.FL antenna connector, Bluetooth 4.x	
Location Services	Gen 8C GNSS (WGR7640) with U.FL antenna connector	
Open-Q™ 2500 Carrier Bo	ard	
Display Interface	4 Iane MIPI DSI interface for optional LCD/touch panel DSI interface supports up to 720p at 60fps, optimized for wearables	
Camera Interface	2-lane MIPI CSI camera interface to support up to 8MP	
Audio Interfaces	2x digital mics, mono I2S speaker amp with speaker terminals — on carrier board 2x I2S interfaces and DMIC inputs on audio expansion header	
USB Interface	USB2 with Type-C interface for quick-charge capability	
I/O Interfaces	microSD card socket, SPI, I2C, GPIO, sensor I/O on expansion headers Debug serial USB microB interface	
Wireless	1x Wi-Fi/BT PCB antennas on Carrier Board	
GNSS Receiver	GNSS receiver LNA/BPF and antenna connector on carrier board	
Form Factor	SOM Size: 31.5mm x 15mm Carrier Board Size: 170mm x 170mm—Mini-ITX form factor with on-board mounting for optional LCD panel	
Power Input	12V/3A from included wall adapter or single-cell Li-lon battery (not included)	
Software:	•	
OS Support	Android™ 8 for Wearables — Note that all hardware features may not be supported by SW versions — see latest SW release notes for deta	







Optional Display and Camera

Development Kit includes: Carrier board, SOM, 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™ 2500 Dev Kit	PN: QC-DB-J10003
• Open-Q™ 2500 SOM	PN: QC-DB-J10004
• 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

© 2021 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 APQ8009W and Qualcomm Snapdragon Wear are products of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm and Snapdragon Wear 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 2500 Dev Kit MPB 00097 Rev A

