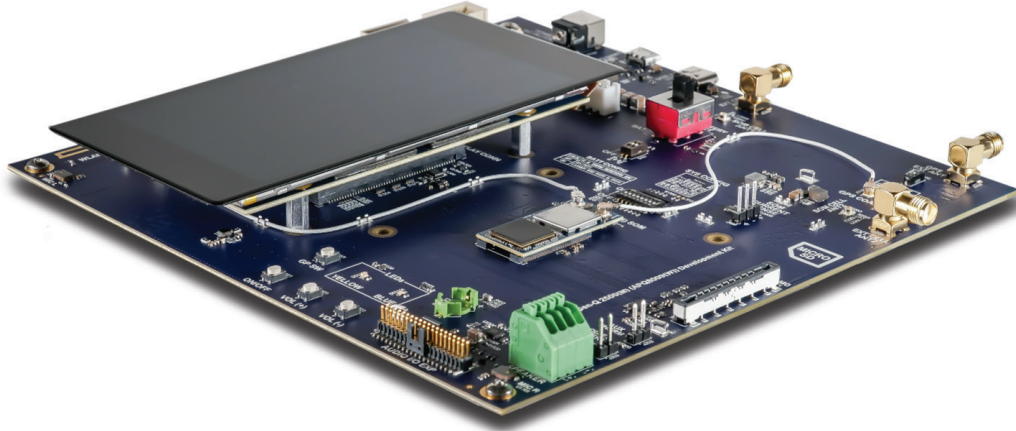


Open-Q™ 2500 Development Kit

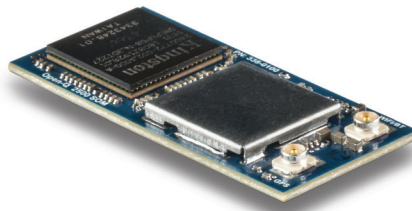
Based on the Qualcomm® Snapdragon Wear™ SDW2500 platform



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

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 Board	
• Display Interface	4 lane 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-Ion 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 details



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

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