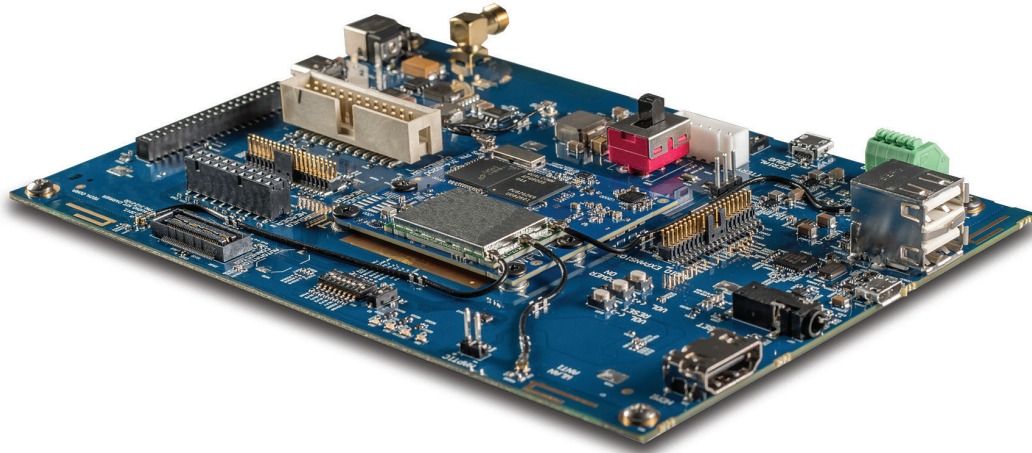


Open-Q™ 212A Home Hub Development Kit

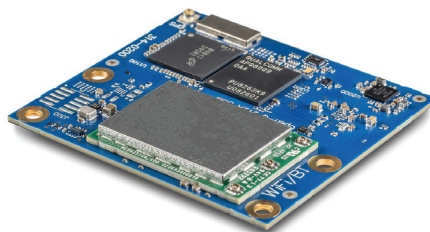
Based on the Qualcomm® APQ8009 SoC



Lantronix's Open-Q™ 212A Home Hub Dev Kit is a cost-effective, feature rich, exposed board platform, powered by our Open-Q™ 212A SOM, based on the APQ8009 SoC from Qualcomm® Technologies, Inc. The Dev Kit is ideal for evaluation of the Open-Q™ 212A SOM as well as jump-starting development of next-gen home hub, voice controlled, or smart speaker products requiring noise cancellation, voice recognition, or other advanced audio features. It supports Wi-Fi and Bluetooth connectivity for connection to home automation devices as well as audio development with speaker amps and microphone array included.

Key Features

- Digital microphone array and stereo speaker amps
- Qualcomm® Fluence™ Pro multi-mic solution
- Separate Wi-Fi and BT PCB antennas for diversity
- MIPI CSI camera connector
- Generous I/O expansion headers
- OpenEmbedded Yocto Linux OS



Open-Q™ 212A 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



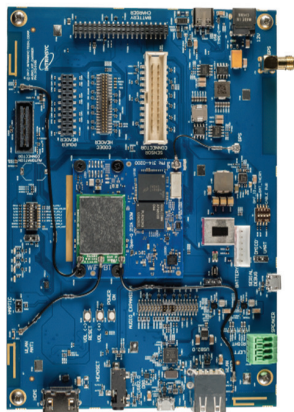
Lantronix Open-Q™ 212A Home Hub Development Kit

Hardware Specifications:

Open-Q™ 212A SOM		*See the Open-Q 212A SOM product brief for complete details
• Processor	Qualcomm® APQ8009 SoC Quad-Core ARM Cortex A7 (32-bit) 1.267GHz, Qualcomm® Adreno™ 304 GPU, Qualcomm® QDSP6 DSP	
• Memory/Storage	1GB LPDDR3 RAM, 4GB eMMC Flash	
• Audio	Qualcomm® Hi-Fi audio codec on SOM (WCD9326)	
• 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	Qualcomm® GNSS solution (WGR7640) supporting GPS, GLONASS, Compass, with U.FL antenna connector	
Open-Q™ 212A Carrier Board		
• Display Interface	4-lane MIPI DSI connector for optional LCD (not supported by current SW)	
• Camera Interface	4-lane MIPI CSI camera connector for optional camera accessory	
• Audio Interfaces	Qualcomm® stereo speaker amps (WSA8815) with speaker wire terminals Digital microphone array (6 mics) on carrier board Digital audio expansion header and analog audio expansion header	
• USB Ports	2x USB2 Type A host ports, USB micro-B device ADB port, Debug UART USB micro-B port	
• Wireless Antennas	2x Wi-Fi PCB antennas (2x2 MIMO) + separate Bluetooth PCB antenna for isolation GNSS receiver front-end LNA/BPF + PCB antenna	
• Power Input	Power input: 12V/3A from included power adapter	
• Size	SOM size: 50mm x 46.5mm	Carrier Board size: 170mm x 115mm

Software:

• OS Support	OpenEmbedded Yocto Linux for Home Hub applications with Qualcomm® Fluence™ Pro *Note that all hardware features are not currently supported by SW versions – see latest SW release notes for details.
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Optional 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™ 212A Dev Kit	PN: QC-DB-K10003D
• Open-Q™ 212A SOM	PN: QC-DB-K10004D
• Open-Q™ OV5640 Camera	PN: QC-DB-I10007

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