

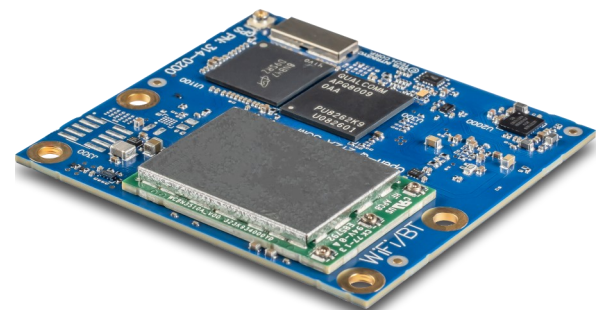
Open-Q™ 212A Home Hub Development Kit

Based on the Qualcomm® Snapdragon™ 212 processor

Intrinsic'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 Snapdragon™ 212 processor 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.

Dev Kit 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



Hardware Specifications

Open-Q 212A SOM

*See the Open-Q 212A SOM datasheet for complete details

Processor	Qualcomm® Snapdragon™ 212 processor (APQ8009) 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	4-lane MIPI DSI connector for optional LCD (not supported by current SW)
Camera	4-lane MIPI CSI camera connector for optional camera accessory
Audio	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® Flunce™ Pro *Note that all hardware features are not currently supported by SW — see latest SW release notes for details.
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Purchasing Information

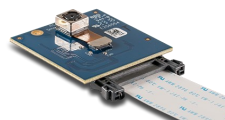
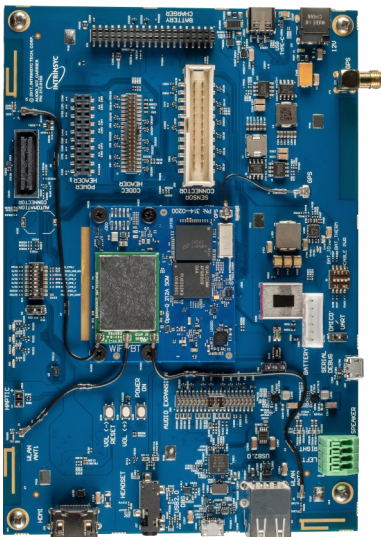
Open-Q 212A Dev Kit	Part number: QC-DB-K10003D Store Link
Open-Q 212A SOM	Part number: QC-DB-K10004D Store Link
Open-Q OV5640 Camera	Part number: 030-0276-0101_A Store Link

Intrinsyc Product Design Services

Intrinsyc also offers comprehensive product development including hardware, software, mechanical engineering, as well as specialty services such as camera, audio, DSP, and RF development.

Contact Intrinsyc to discuss your product design needs today:

sales@intrinsyc.com



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.

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