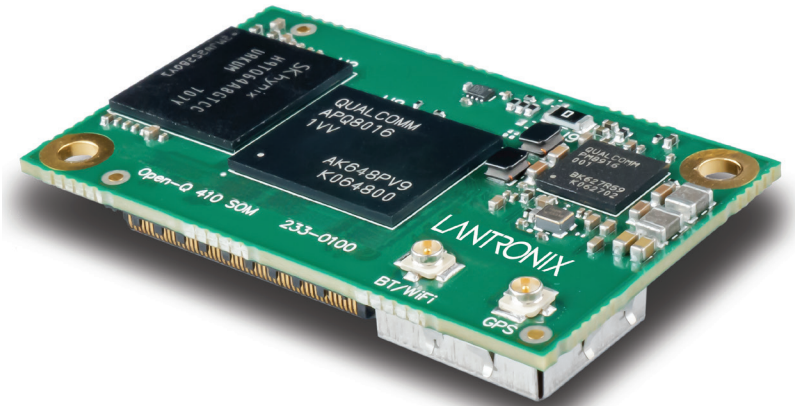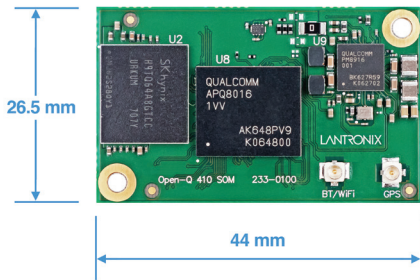# LANTRONIX®

Open-Q™ 410 SOM (System on Module)
Based on the Qualcomm® APQ8016E SoC

Lantronix's Open-Q™ 410 SOM is a compact, pre-certified, production ready module based on the Qualcomm APQ8016E SoC. The SOM's small form factor, advanced technology, and extensive range of supported peripherals provide the perfect platform for creating low cost, high performance embedded and mobile IoT devices.

Key Features

- Qualcomm® APQ8016E SoC
- 1GB LPDDR3 and 8GB eMMC
- FCC/IC Pre-certified Wi-Fi/BT
- Japan Radio Type Certification
- Ultra-compact 44mm x 26.5mm
- Android™ 7, Linux®, Microsoft Azure Certified

Applications

- Wearable cam / Action cam / 360 degree cam
- Smart home / IP cam / Security cam
- Industrial machine vision camera
- Stereo-vision camera
- Retail analytics camera
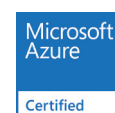- Robotics / drones

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
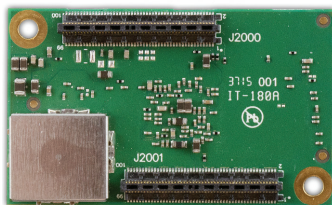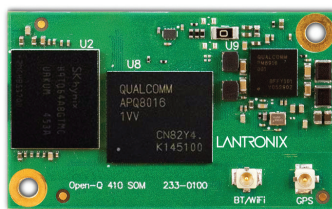
IoT Product Development made easy

Qualcomm

Microsoft Azure Certified

LANTRONIX®

Lantronix Open-Q™ 410 SOM

Hardware Specifications:

Open-Q™ 410 SOM

• **Processors**	Qualcomm® APQ8016E SoC Quad-Core ARM® Cortex® A53 (64-bit, 1.2GHz) Qualcomm® Adreno™ 306 GPU Qualcomm® Hexagon™ v5 DSP
• **Memory/Storage**	1GB LPDDR3 RAM (533MHz), 8GB eMMC 5.0 Flash in eMCP combo package
• **Wireless**	Wi-Fi 802.11b/g/n 2.4 GHz single band (WCN3620), Bluetooth 4.1 + BLE FCC/IC Modular Certified Wi-Fi/BT
• **Location Services**	Qualcomm® IZat™ Gen 8C GPS & GLONASS
• **Display Interface**	1x MIPI-DSI 4-lane, up to 720p 60fps
• **Camera Interfaces**	2x MIPI-CSI — 1x 4-lane, 1x 2-lane, up to 13MP
• **Video**	Encode up to 720p 30fps (H.264 Baseline/MPEG-4), 1080p 30fps (MPEG-4/H.264/VP8/H.263) Decode up to 1080p 30fps (MPEG-4/H.264/H.263/DivX/MPEG2/VC1/Soreson/VP8)
• **Audio**	Integrated audio codec (PM8916) with: 3x Analog in, 4x Analog out 2x Digital mic in, 2x I2S
• **Power/Battery Management**	Power management and battery charging (PMI8916)
• **I/O**	1x USB 2.0 (client or host), 6x BLSP 4-pin port configurable as I2C, SPI, UART or GPIO, 1x SDIO, 30x GPIO
• **Operating Environment**	Input voltage: 3.3V to 4.2V Operating Temperature: -25°C to +85°C
• **Form Factor**	Dimensions: 44mm x 26.5mm 2x 100 pin board to board connectors

Software:

• **OS Support**	Android™ 7 Nougat, Android™ 5 Lollipop, Linux®, Microsoft Azure Certified Note that all hardware features may not be supported by all SW — see latest SW release notes for details.

Purchasing Information:

• **Open-Q™ 410 SOM**	PN: QC-DB-H00004

Alternate SOM configurations available by special order (minimum order quantities apply) - e.g. different memory size, etc. Contact sales to discuss your specific needs today.

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Certifications