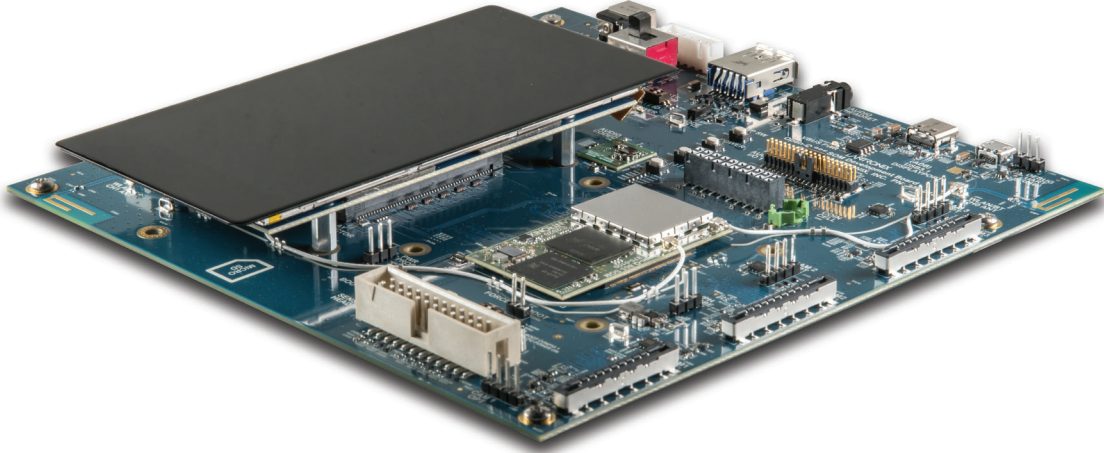# LANTRONIX®

Open-Q™ 865 Development Kit
For Open-Q 865 Family of SOMs

The Open-Q™ 865 Development Kit is a versatile, easy-to-use, exposed board platform, compatible with our production-ready Open-Q 865 family of System-on-Modules (SOM). The development kit provides the ideal starting point for evaluating any of the compatible Open-Q 865 family of SOMs or developing next generation embedded and IoT devices.

The Open-Q 865 Development Kit consists of an open-frame carrier board exposing all the available I/O, a power supply, SOM heatsink, ST Micro sensor board, Quick Start Guide, and access to documentation and SW updates. A range of accessories is also available to fast track your product development.

The development kit does not include a SOM. A compatible SOM of your choice must be purchased separately and installed onto the development kit carrier board.

Key Features

- Compatible with the micro-sized (50x29mm) Open-Q 865 family of SOMs

- Open-frame Mini-ITX Form-factor carrier board for evaluation and development

- Numerous I/O and connectivity options

- Optional LCD/touchscreen and cameras

- Wi-Fi and Bluetooth antennas on carrier board

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

ubuntu

LANTRONIX®

Lantronix Open-Q™ 865 Development Kit

Hardware Specifications:

Open-Q™ 865 SOM Family

• **The Development Kit is compatible with the following SOMs:**

- Open-Q 865XR SOM (6+64GB)

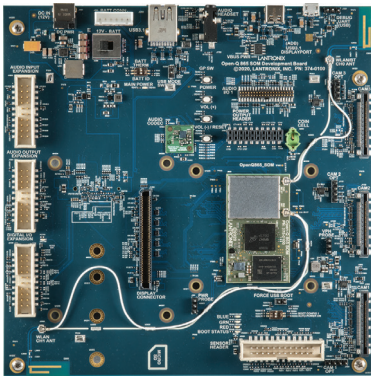- Open-Q 865XR SOM (8+128GB)

- Open-Q 5165RB SOM (8+128GB)

For SOM specifications and SW features see individual SOM product briefs or Lantronix website.

Open-Q™ 865 Carrier Board

• **Display Interfaces**	DisplayPort v1.4 on USB Type-C, at 8.1 Gbps/lane, with USB3 and USB2 data concurrency 2x 4 lane MIPI DSI connector for optional LCD / Touch panel accessory or custom display adapters
• **Camera Interfaces**	3x 4-lane MIPI CSI with connectors to mate to optional camera accessories
• **Audio Interfaces**	Qualcomm® WCD9385 Hi-Fi audio codec module on carrier board, with 3.5mm headset jack (stereo out + mic in) Additional audio expansion: Analog out header, Analog in header, digital I/O header (SoundWire/DMIC/MI2S/PDM)
• **I/O Interfaces**	2 USB ports: 1x USB3.1 Type-C + DisplayPort, 1x USB 3.1 Type-A host 1x PCIe Gen3 2-lane M.2 socket, microSD card socket Debug UART with serial USB I/O expansion headers for sensor board, UART, I2C, SPI, configurable GPIOs
• **Wireless**	Dual Wi-Fi/BT PCB antennas on carrier board
• **Power Input**	Input: 12V/3A (adapter included) or single-cell Li-Ion battery (not included)
• **Form Factor**	Carrier Board: Mini-ITX 170mm x 170mm

Software:

• **OS Support**	Operating system SW depends on the specific SOM purchased and installed. See SW information in SOM product briefs or on www.lantronix.com.

Optional Display and Camera

Purchasing Information:

• **Open-Q™ 865 Dev Kit (SOM not included)**	PN: QC-865-DK-CARRIERBRD
• **Open-Q™ 865XR SOM (6+64GB)**	PN: QC-DB-U10004
• **Open-Q™ 865XR SOM (8+128GB)**	PN: QC-DB-U10004A
• **Open-Q™ 5165RB SOM (8+128GB)**	PN: QRB5165-SOM-A
• **Open-Q™ LCD**	PN: QC-DB-G00005
• **Open-Q™ IMX258 Camera**	PN: QC-DB-U10006

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Development Kit includes: Carrier board, ST Micro sensor board, 12V power supply, Quick Start Guide, access to full documentation, SW updates, and basic development kit support.

SOM SOLD SEPARATELY

LANTRONIX®