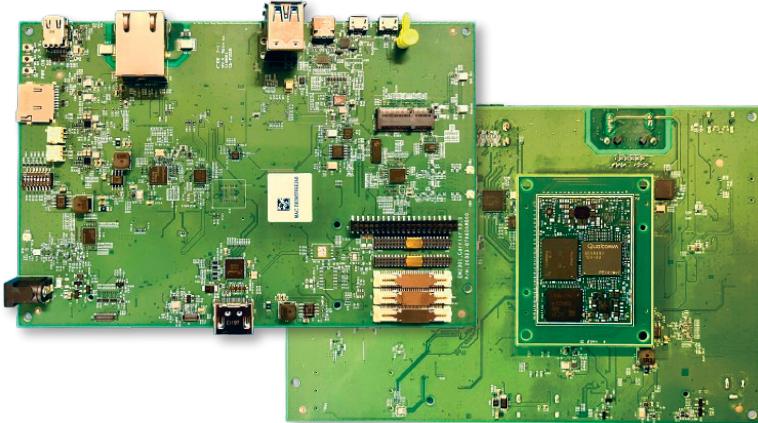


# Open-Q™ 6490CS SOM Development Kit



The Open-Q™ 6490CS Development Kit is designed to facilitate easy evaluation and development. The kit includes many standard sockets, enabling customers to choose from a wide range of third-party accessories. The SOM utilizes on-Chip with multiple specialized processing cores for powerful AI, image and graphics, and audio processing.

The development kit provides the ideal starting point for evaluating the Open-Q™ 6490CS SOM. The platform consists of Lantronix's Open-Q™ 6490CS SOM, an open-frame carrier board exposing all the available I/O, and a range of accessories to fast-track your product development.

## Key Features

- Powered by Open-Q™ 6490CS SOM
- Standard M.2 sockets for evaluating LTE, NVMe storage and Wi-Fi
- C-PHY and D-PHY MIPI camera interfaces
- HDMI, eDP, and DisplayPort
- Numerous I/O and connectivity options
- Storage interfaces for UFS, SPI, SD, NVMe storage and USB
- JTAG and debug ports
- Gigabit ethernet interfaces
- 96Boards-compliant High-Speed Connectors
- Android™ 13 and Qualcomm Linux



Open-Q™ 6490CS 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
- AI/ML Application
- Mechanical & RF design
- Thermal & power optimization

IoT product development made easy.



LANTRONIX®



# Lantronix Open-Q™ 6490CS SOM Development Kit

## Hardware Specifications:

### Open-Q™ 6490CS SOM

\*See the Open-Q 6490CS SOM product brief for complete details

• <b>Processors</b>	Qualcomm® Dragonwing™ QCS6490 SoC built on 6nm technology: Kryo™ 670 Octa-core CPU: 1 Prime @ 2.7 GHz + 3 Gold @ 2.4 GHz + 4 Silver @ 1.8 GHz Hexagon™ 770 with Hexagon Vector eXtensions (HVX)
• <b>Memory/Storage</b>	Supports external UFS and SD
• <b>Wireless</b>	Supports external Wi-Fi via PCIe 1-lane, up to Wi-Fi 6E, 2x2 MU-MIMO + Bluetooth 5.2

### Open-Q™ 6490CS SOM Carrier Board

• <b>Display Interfaces</b>	HDMI Port DisplayPort v1.4 via USB Type-C (ALT mode) Embedded DisplayPort (eDP)
• <b>Camera Interfaces</b>	5x MIPI CSI interfaces, supports for both D-PHY and C-PHY camera interfaces
• <b>Audio Interfaces</b>	Qualcomm® WSA8835 audio amplifiers for the left and right speaker output, 4 digital microphones
• <b>I/O Interfaces</b>	2x USB 3.0 ports: 1x USB3.1 Type-C with DisplayPort, Micro USB-B OTG, Serial UART over USB for debug SD socket, SIM Card socket, Low-Speed and High-Speed connectors, GPIO, 12C, UART, M.2 for LTE, M.2 for Wi-Fi, M.2 for NVMe SSD Support up to 2.5 Gb Ethernet
• <b>Wireless</b>	Onboard chip: Qualcomm® WCN6750 (2x2 MU-MIMO, with tri-band (2.4 GHz/5 GHz/6 GHz) and Bluetooth 5.2) External Module: Compatible with PCIe Wi-Fi module (WCBN813A) (Compliance with IEEE 802.11 b/g/n/ac/ax for Wi-Fi and Bluetooth 5.0 standards)
• <b>GPS</b>	Qualcomm® SDR735 GPS RF receiver
• <b>Power Input</b>	Input: 12V/3A
• <b>Form Factor</b>	SOM: 47mm x 35mm, Carrier Board: 120mm x 180mm

## Software:

• <b>OS Support</b>	Android 13 and Qualcomm Linux.
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## Lantronix Advantage

- Unique expertise with Qualcomm products
- Addressing small to mid-size customer requirements
- Complete solutions with HW, SW, & Services
- Global TAA/NDAA-compliant manufacturer
- Focused on Edge intelligence with Qualcomm-based AI acceleration
- Qualcomm-Aligned: 100% in sync with QC IIOT Roadmap

## Purchasing Information:

<b>LOQ-6490-EVK</b>	Open-Q 6490CS development kit with accessories
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# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[LOQ-6490-EVK](#)