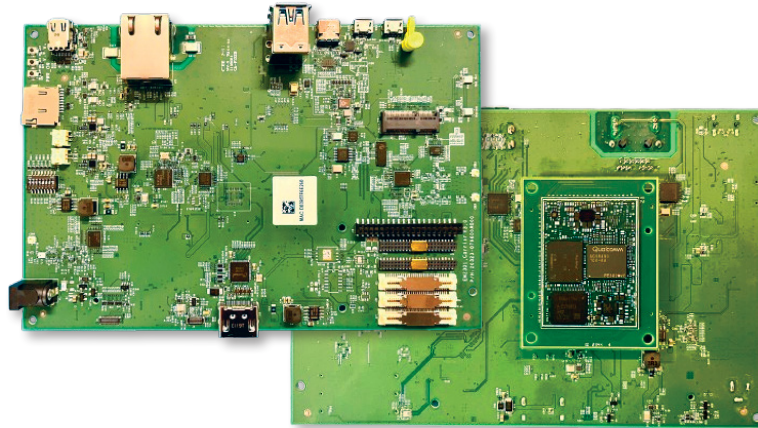


Open-Q™ 6490CS SOM Development Kit



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 Open-Q™ 6490CS SOM Development Kit

Hardware Specifications:

Open-Q™ 6490CS SOM		*See the Open-Q 6490CS SOM product brief for complete details
• Processors	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)	
• Memory/Storage	Supports external UFS and SD	
• Wireless	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		
• Display Interfaces	HDMI Port DisplayPort v1.4 via USB Type-C (ALT mode) Embedded DisplayPort (eDP)	
• Camera Interfaces	5x MIPI CSI interfaces, supports for both D-PHY and C-PHY camera interfaces	
• Audio Interfaces	Qualcomm® WSA8835 audio amplifiers for the left and right speaker output, 4 digital microphones	
• I/O Interfaces	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, I2C, UART, M.2 for LTE, M.2 for Wi-Fi, M.2 for NVMe SSD Support up to 2.5 Gb Ethernet	
• Wireless	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)	
• GPS	Qualcomm® SDR735 GPS RF receiver	
• Power Input	Input: 12V/3A	
• Form Factor	SOM: 47mm x 35mm, Carrier Board: 120mm x 180mm	
Software:		
• OS Support	Android 13 and Qualcomm Linux.	

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:

LOQ-6490-EVK	Open-Q 6490CS development kit with accessories
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[Learn more at lantronix.com/open-q-6490-dev-kit](https://lantronix.com/open-q-6490-dev-kit)

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