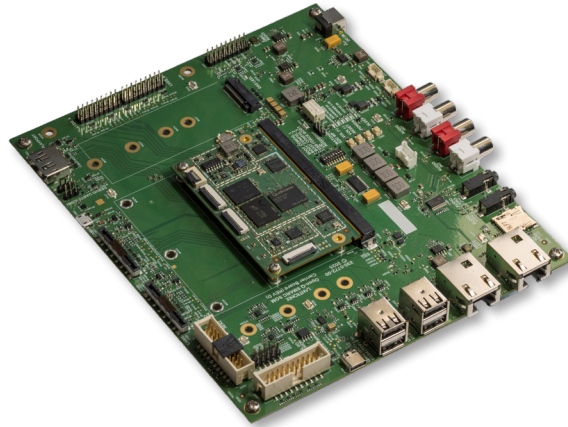


Open-Q™ 6490CS SMARC SOM Development Kit



The Open-Q™ 6490CS SMARC SOM Development Kit is the premier evaluation and prototyping platform for Lantronix's next-generation industrial SMARC System on Module (SOM) product line. Powered by the high-performance Qualcomm® Dragonwing™ QCS6490 chipset, this versatile kit accelerates proof-of-concept engineering for advanced computer vision and multimedia applications.

Designed to a standard SMARC form factor, the platform seamlessly showcases the SOM's elite capabilities, exposing robust interfaces for MIPI CSI cameras, displays, Ethernet, high-fidelity audio, and sensors. It serves as both an ideal starting point for product evaluation and a comprehensive reference design for complex hardware integration.

Each production-ready kit delivers a complete development reference platform. It features the Open-Q™ 6490CS SMARC SOM, an open-frame carrier board for unrestricted I/O access, and a curated suite of accessories engineered to compress your time-to-market.

Key Features

- Qualcomm® Dragonwing™ QCS6490 SoC
- Up to 8GB LPDDR5 RAM + 64GB UFS
- Additional storage via SD card and NVME
- Multiple D-PHY MIPI camera & Display Ports
- Multiple high speed connectivity options
- Supports SMARC 2.2 SOM
- Android™ 13 and Qualcomm Linux



**Open-Q™ 6490CS
SMARC 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 SMARC SOM Development Kit

Hardware Specifications:

Open-Q™ 6490CS SMARC 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	Up to 8GB LPDDR5 and 64GB UFS Supports external NVMe and µSD card storages	
• Wireless	Supports up to Wi-Fi 6E, 2×2 MU-MIMO + Bluetooth 5.2	
Open-Q™ 6490CS SMARC SOM Carrier Board		
• Display Interfaces	DisplayPort v1.4 LVDS Connectors; Supporting LVDS panels up to 1920 × 1080p at 60 fps	
• Camera Interfaces	1x MIPI 2-lane CSI D-PHY 1.2 with CCI I2C control 1x MIPI 4-lane CSI D-PHY 1.2 with CCI I2C control *additional 3x MIPI CSI connectors on the SOM Compatible camera module: Lantronix IMX258 13MP (QC-DB-U10006)	
• Audio Interfaces	RCA 2 Channel Audio input RCA 2 Channel Audio output TRS connector Audio input DMIC	
• I/O Interfaces	4× USB 2.0 ports, 1× USB 3.1 Type-C port Micro USB debug UART and serial debug UART connectors MicroSD socket GPIO, I²C, UART, CAN, and JTAG interfaces Digital I/O expansion headers M.2 M-Key connector for PCIe 2× Gigabit Ethernet interfaces	
• Power Input	12V input	
• Form Factor	200mm x 170mm	

Software:

• OS Support	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:

LOQ-6490-SMARC-EVK	Open-Q™ 6490 SMARC devkit with SOM (8GB/64GB), BT/WiFi antennas, USB debug Cable, and accessories
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