

Open-Q™ AL Development Kit



The Open-Q™ AL development kit is designed for rapid prototyping of new innovative products requiring advanced imaging and computer vision performance in low-cost and low-power embedded situations. It comprises separate hardware modules connected by high-speed and low-speed connectors. It is compliant with the 96Boards open hardware specification standard, providing the flexibility for users to add additional 3rd party mezzanine expansion boards.

The development kit is compatible with the Open-Q™ 4200 and 2200 SIP families. Users can use the same development kit to evaluate or prototype with many SIP families from Lantronix.

Key Features & Benefits

- The development kit provides hardware interfaces to evaluate camera, video, display on LCD and HDMI, and connectivity capabilities
- Supports many robotic features
- User can expand the kit with compatible boards from 96Boards



Open-Q™ 4200 SIP Family



Open-Q™ 2200 SIP Family

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.

Lantronix Open-Q™ AL Development Kit

Hardware Specifications:

The Development Kit is compatible with the following SIP	<ul style="list-style-type: none"> Open-Q™ 4290CS Open-Q™ 2290CS
Display Interfaces	<ul style="list-style-type: none"> TFT LCD, 4.99 inch, 720 x RGB x 1280 dots HDMI Type A
Camera Interfaces	<ul style="list-style-type: none"> 2x 4-lane MIPI CSI 1x 1-lane MIPI CSI 1x 4-lane or 2-lane MIPI CSI 2x GMSL2 camera inputs
Audio Interfaces	<ul style="list-style-type: none"> 4x Digital PMD mics Speaker connectors
I/O Interfaces	<ul style="list-style-type: none"> 3x Low-speed connectors, 96Boards 3x High-speed connectors, 96Boards USB Type C, 2 USB Type A, Debug UART, RJ45 Ethernet, microSD card, JTAG Antenna on interposer 3x Infrared interfaces

Wireless	Wi-Fi and Bluetooth depend on the specific SIP purchased and installed
Ethernet	Ethernet through USB 3.0 (1GB)
Power Input	12V
Form Factor	96Boards compliant

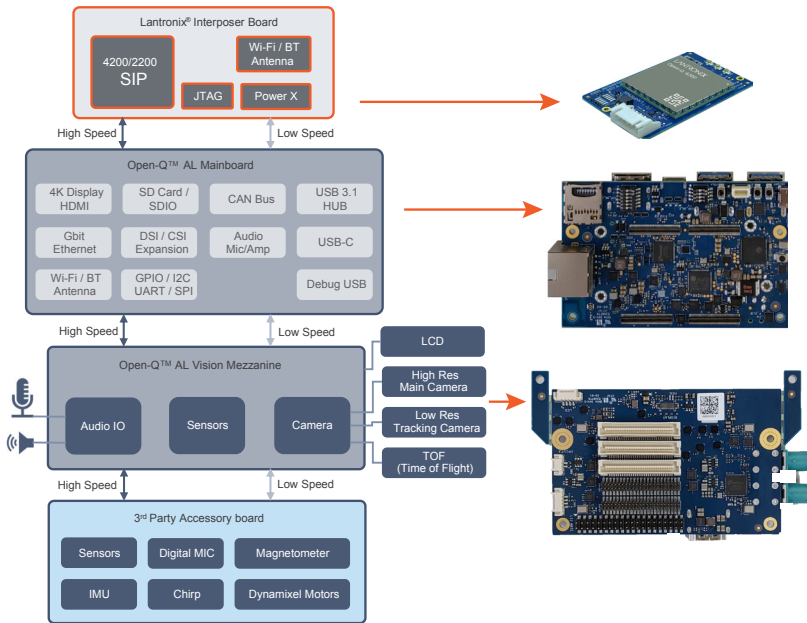
Software:

OS Support	<ul style="list-style-type: none"> Operating system software depends on the specific SIP purchased and installed. See compatible SIP list. Demo BSP and OS
-------------------	--

Dev Kit SKUs

How to order an Open-Q™ AL Development Kit

- The customer orders a fully preassembled Open-Q™ AL kit if the customer wants to evaluate camera features. SKU of the full kits are:
 - QC-DK-AL1
 - QC-DK-AL2
- Contact us for accessories and third-party 96Boards



SIP on Interposer Board

Part Number	Description
QC-SIP-CONN-2290CS-A	Open-Q™ 2290CS SIP (2GB/16GB) on Interposer Board with B2B Connectors Android 12 Go
QC-SIP-CONN-4290CS-A	Open-Q™ 4290CS SIP (2GB/16GB) on Interposer Board with B2B Connectors Android 12 Go
QC-SIP-CONN-4290CS-B	Open-Q™ 4290CS SIP (4GB/64GB) on Interposer Board with B2B Connectors Android 12
QC-SIP-CONN-4290CS-C	Open-Q™ 4290CS SIP (4GB/256GB) on Interposer Board with B2B Connectors Android 12

Fully Assembled Development Kits

Part Number	Description
QC-DK-AL1	<ul style="list-style-type: none"> Compatible with Open-Q™ 2200 SIP Series Pre-assembled Open-Q™ AL2 Main Board Open-Q™ AL2 Vision Kit with Nav Mezzanine Board, OV05A10 Main Camera and OV9282 Tracking Camera 5.45" TFT LCD, 720 x 1440 dots, touch screen
QC-DK-AL2	<ul style="list-style-type: none"> Compatible with Open-Q™ 4200 SIP Series Pre-assembled Open-Q™ AL2 Main Board Open-Q™ AL2 Vision Kit with Nav Mezzanine Board, OS08A10 Main Camera and OV9282 Tracking Camera. 5.45" TFT LCD, 720 x 1440 dots, touch screen

Certifications



Contact Information:

Americas

americas_sales@lantronix.com
www.lantronix.com
NASDAQ: LTRX

Europe

eu_sales@lantronix.com

Asia/Pacific/Japan

asiapacific_sales@lantronix.com

© 2023 Lantronix, Inc. All rights reserved. Lantronix is a registered trademark of Lantronix, Inc. in the U.S. and other countries. Open-Q is a trademark of Lantronix, Inc. Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. Android is a trademark of Google LLC. All other trademarks are the property of their respective owners. Specifications subject to change without notice. Not all features listed may be supported in software. MPB-00154 Rev A

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Development Boards & Kits - Other Processors](#) category:

Click to view products by [Lantronix](#) manufacturer:

Other Similar products are found below :

[KIT_AURIX_TC233LP_TRB](#) [STM8S/32-D/RAIS](#) [QB-R5F110PJ-TB](#) [ST7MDT1-EMU2](#) [KITA2GTC3975VTRBSTOBO1](#)
[RTK5572TKCS00000BE](#) [ST623X-KIT/220](#) [STEVAL-ISV014V1](#) [KIT_XC836_EK_V1](#) [XIAO STARTER KIT](#) [SIBRAIN FOR](#)
[AVR128DA64](#) [CLICKER 4 FOR TMPM3H](#) [ACRYLIC CASE FOR XIAO EXPANSION BOARD](#) [RSSDEMO50F-AA-13# DEMO KIT](#) [VS](#)
[1000 DEMO BOARD](#) [SIBRAIN FOR AVR64DA64](#) [XIAO RP2040](#) [GSM CLICK](#) [CODEGRIP ADAPT V6](#) [DUAL SMART USB CHARGER](#)
[WIZFI360-EVB-PICO](#) [EDGE CONTROL ENCLOSURE KIT](#) [DK-SOC-10AS066S-E](#) [902-0183-000](#) [Y-ASK-RL78F13-V2](#) [Y-ASK-](#)
[RL78F14-V2](#) [Y-ASK-RL78F15-V2](#) [KITA2GTC3895VTRBTOBO1](#) [KITA2GTC3995VTRBTOBO1](#) [CONNECTEVE](#) [R0K521380S000BE](#)
[R0K578L1CD000BR](#) [LV-24-33 V6 44-PIN TQFP MCU CARD EMPTY](#) [LV-24-33 V6 64-PIN TQFP MCU CARD EMPTY](#) [LV-24-33 V6 80-](#)
[PIN TQFP 1 MCU CARD EMPTY](#) [32X32 RGB LED MATRIX PANEL - 6MM PITCH](#) [READY FOR XMEGA CASING \(WHITE\)](#) [RELAY4](#)
[BOARD](#) [ETHERNET CONNECTOR](#) [RFID CARD 125KHZ - TAG](#) [RFM12B-DEMO](#) [MAROON](#) [MAX232](#) [MAX3232 BOARD](#) [THREE-](#)
[AXIS ACCELEROMETER BOARD](#) [TINKERKIT HALL SENSOR](#) [TOUCHPANEL CONTROLLER](#) [MIKROBOARD FOR AVR WITH](#)
[ATMEGA128](#) [MIKROBUS CAPE](#) [MIKROETH 100 BOARD](#)