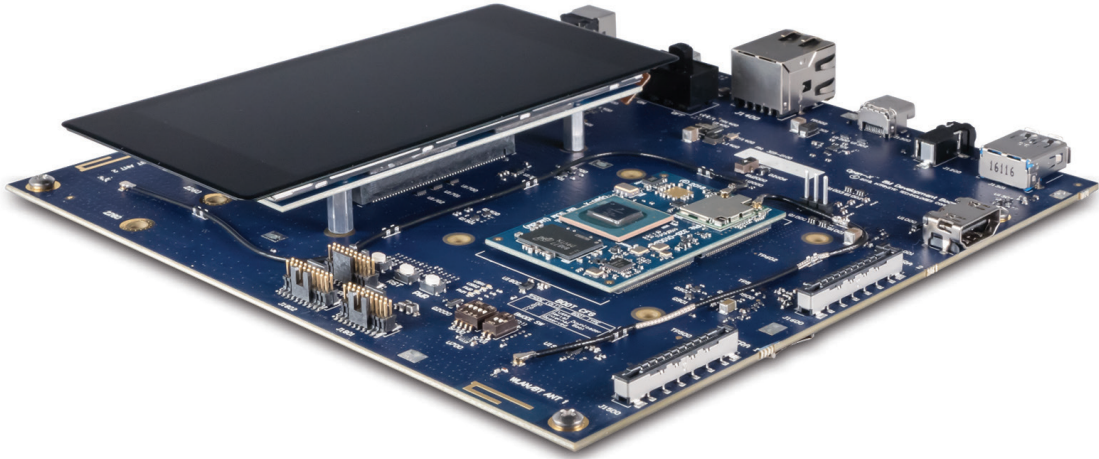


Open-X™ 8M Development Kit

Based on the NXP® i.MX 8M™ SoC



Lantronix's Open-X™ 8M Development Kit is a cost-effective, feature rich, multimedia-focused, exposed board platform powered by our Open-X™ 8M SOM (System on Module). It is ideal for evaluation of the Open-X™ 8M SOM as well as jump-starting development of streaming video/audio devices, voice control and general human-machine interface solutions.

An HDMI 2.0a video output is provided for ease of use out of the box, and our optional LCD/touchpanel is also compatible. With a multitude of high performance interconnect options, including two USB3.0 ports, Gigabit Ethernet, PCIe Gen2, and pre-certified dual-band 2x2 MU-MIMO WLAN, this Dev Kit is ideal for development of a wide range of embedded and IoT products.

Key Features

- Powered by the Open-X™ 8M SOM
- Open-frame Mini-ITX Form-factor Carrier Board for evaluation and development
- Generous I/O and connectivity options
- 4K HDMI 2.0a output, USB Type-C , PCIe Gen2 Connector
- Android™ 8, Linux®



Open-X™ 8M 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
- Machine learning
- Mechanical & RF design
- Thermal & power optimization

IoT Product Development made easy



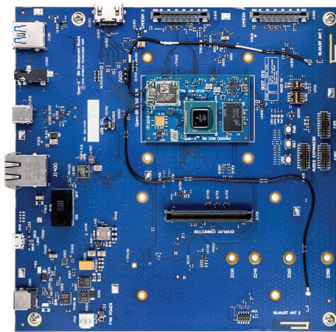
Lantronix Open-X™ 8M Development Kit

Hardware Specifications:

| Open-X™ 8M SOM | | *See the Open-X 8M SOM product brief for complete details |
|--------------------------|--|---|
| • Processor | NXP® i.MX 8M™ SoC – Quad-core ARM Cortex-A53 MPCore at 1.5 GHz + single-core ARM Cortex-M4 | |
| • Memory/Storage | 3GB LPDDR4 RAM, 16GB eMMC Flash | |
| • Wireless | WLAN 802.11a/b/g/n/ac 2.4/5.0 GHz 2x2 MU-MIMO + Bluetooth 4.1 –pre-certified module (FCC/IC) | |
| Open-X™ 8M Carrier Board | | |
| • Display Interfaces | HDMI Type-A connector supporting HDMI 2.0a for 4096 x 2160 @ 60Hz MIPI DSI display connector for optional LCD / Touch Panel to mount on carrier board | |
| • Camera Interfaces | 2 x MIPI CSI2 camera connectors for optional camera module | |
| • Audio Interfaces | 3.5mm line-level stereo output Audio expansion: 1x 16 channel bi-directional SAI digital audio interface (I2S, AC97, TDM, DSP) 1x 8 channel receive SAI digital audio interface (I2S, AC97, TDM, DSP) 1x 2 channel receive SAI digital audio interface (I2S, AC97, TDM, DSP) 1x S/PDIF input and output | |
| • I/O Expansion | I2C, NAND interface, GPIO, JTAG header, dual debug UART on USB serial micro-B | |
| • High Speed | 1x USB3.0 Type-A, 1x USB3.0 Type-C, Gigabit Ethernet J45 | |
| • Expansion Sockets | M.2 socket with PCIe Gen2, USB HS, UART, I ² S, I ² S microSD card socket | |
| • Wireless | Two WLAN/Bluetooth PCB antennas on carrier board with coaxial connection to SOM | |
| • Power | Input Power: 12V/3A to barrel jack (power supply included) or USB Type-C power Power probe header for SOM power consumption measurement | |
| • Form Factor | SOM size: 55mm x 35mm Carrier Board size: Mini-ITX 170mm x 170mm with on-board mounting for optional LCD panel | |

Software:

| | |
|--------------|---|
| • OS Support | Android™ 8, Linux® *Note that all hardware features may not be supported by SW – see latest SW release notes for details |
|--------------|---|



Optional Display

Purchasing Information:

| | |
|----------------------|------------------|
| • Open-X™ 8M Dev Kit | PN: QC-DB-Q00003 |
| • Open-X™ 8M SOM | PN: QC-DB-Q00004 |
| • Open-X™ 8M LCD | PN: QC-DB-G00005 |

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

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