

ECT-KRIA-EVK

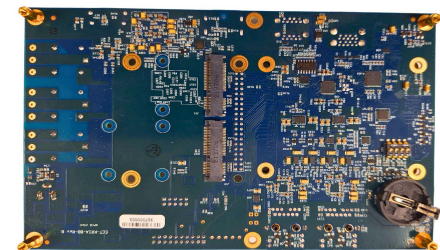
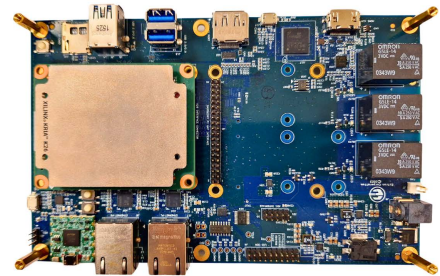
Rugged design * High efficiency * LOW POWER * Powerful Embedded Computer

The Ectron ECT-KRIA-EVK is built around the powerful Kria™ SOM from AMD. The Kria™ SOM (<https://www.xilinx.com/products/som/kria.html>) is a Zynq™ UltraScale+™ MPSoC with quad core 64-bit ARM processor coupled with a large FPGA. The industrial version of the compact SOM has an operation range: -40°C to +100°C for rugged applications in harsh environments.

The ECT-KRIA-EVK is the electronics that goes into Ectron's LG/EG class computers configured as a light gateway and embedded computers. They run Ubuntu Linux and come pre-loaded with the software to build multiple applications. This is one of the most powerful development kits on the market for edge computing applications. A BIST is provided with each board and a simple reference design for use.

FEATURES

- Quad Core 64-bit ARM processor with FPGA
- Multiple Interfaces
 - Two (2) GbE RJ45 interfaces
 - Four (4) USB 3.0/2.0 interfaces
 - GPS (can be disabled) with Radio
 - Digital I/O and Actuator Control
 - Two (2) mPCIe expansion slots
 - One LCD interface
- Radio Options: 4G/LTE or 5G, WiFi, LoRA
- Storage of 128 GB (Industrial SD)
- All drivers included
- SW customization, white labelling, high volume available
- Integrated with Ectron's SmartEYE™ Industrial IoT Platform
- Azure hours included for testing and prototyping
- For 4G/5G Global SIM provided for limited time use
- Program and develop using free Xilinx tools



The ECT-KRIA-EVK is offered as a stand alone kit with accessories or as an IIoT kit with out partners

- Balluff (Sensors, networking)
- AMD (Processors, FPGA and Tools)

Ectron offers an IIoT development kit with sensor options, networking along with our partners Balluff. Customization on the computers including software stack and integration with other systems is provided by Ectron for customers. Ectron's full stack hybrid edge + cloud solution SmartEYE™ (<https://www.ectron.com/product/smarteye/>) provides real-time AI/ML on the edge.

Applications

- Edge Computing with AI/ML
- Industrial Machinery, COTS MIL
- General Purpose edge gateways
- Factory and Building Automation
- Smart Grid and Energy monitoring
- Automotive and Defense applications
- Test and measurement

BALLUFF

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AMD

For customization and use in high volume applications contact Ectron