

IoT Edge Computer ECT-ECI

Rugged * Uncooled * IP67 * Industrial * AI/ML capable * Industrial computer

The Ectron IoT Edge Computer (ECT-ECI) is a ruggedized industrial grade computer that is HALT and HASS tested. It comes with rich feature sets and is ready for deployment on the factory floor in harsh environments, or in areas where standard computers cannot be deployed. The ECT-ECI computer is Microsoft Azure Certified.

Features :

- Operating System: MS Windows 10 IoT LTSC
- Microsoft Azure Compatible
- Edge AI/ML capability
- OT-IT Bridging: Profinet, EthernetIP, MTConnect
- OPTIONAL: AI/ML Co-processor
- Connectivity: 2 USB, 2 Ethernet, HDMI
- Processor: Intel Core
- Memory: 128 GB or 256 GB SSD
- Operating Voltage : +20 to +30V DC
- Convection cooling
- Operating Temperature : - 40°C to +85 °C
- 95% non-condensing humidity
- Connect and process up to 100 end sensors
- Process data locally or send to Azure Cloud
- Gateway, Edge Computer, IIoT Sensor aggregation
- Full stack with MT Connect and Tags for PLC communication



The ECT-ECI computer is used in the **Ectron SmartEYE™** platform. It can also be used as a standard gateway box and comes preloaded with edge AI/ML capability. Mostly suitable for use as a machine, line or cell controller/monitor in conjunction with Hub where sensors are aggregated to the ECT-ECI.

The computer operates from a standard industrial power rail of 24V. All the interfaces are projected on the front and the entire enclosure is sealed to prevent moisture and water seeping inside.

The computer runs a Microsoft Windows Server to present status, state data when you walk up to it with a tablet, and can also be used as an HMI computer on the factory floor. The ECT-ECI comes preloaded with a full stack with MT Connect server/client, ability to connect to Allen Bradley and Siemens PLCs and can also be configured to connect to SCADA systems

Applications:

- Control Computer
- IIoT Edge Computer
- Machine/Engine Monitor and HMI
- Building Automation
- Industrial Vision
- IIoT Gateway
- OT-IT Bridging

