IoT Edge Server ECT-MAN

Rugged * IP65 * Industrial * AI/ML capable * Industrial computer

The Ectron Server Class Computer (ECT-MAN) is a ruggedized industrial grade computer. ECT-MAN comes loaded 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
- RADIOS: WiFi and optional 5G/4G/LTE with GPS
- AI/ML Co-processor
- Connectivity: 4 USB 3.0, 4 Ethernet, 2 USB 2.0, HDMI
- Processor: Intel Xeon 6 Core
- Memory: 1 TB SSD
- Operating Voltage : +20 to +30V DC
- Operating Temperature : - 40°C to +85 °C
- 95% non-condensing humidity
- Connect and process up to 800 end sensors
- Process data locally or send to Azure Cloud
- Aggreagate ECT-ECI computers or other Edge devices

The ECT-MAN computer is used in the **Ectron SmartEYE™** platform. ECT-MAN can be used stand alone as a standard gateway, control computer, server class edge computer, mobile server and comes preloaded with edge AI/ML capability. Suitable for use as a in conjunction with multiple Ectron Edge computers as an aggregator or stand alone with Hub where sensors are aggregated. Like all Ectron Edge computers can bridge OT-IT protocols

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 full stack on the computer comes with a Database, MT connect, TAGs to connect to Allen Bradley and Siemens PLCs or DCS systems. SCADA interfaces can be added as needed.

The computer is configured based on application to order with software. Operating System: Linux or Windows, Connectivity: choose LTE/4G with GPS, WiFi comes standard, Co-Processor: AI/ML co-processor comes standard. Computer comes ready to connect to Microsoft Azure. For MIL/Rugged or other options for high volume contact us.

Applications:

- Control Computer
- IIoT Edge Server
- Plant monitor, Remote monitoring
- Building Automation
- Industrial Vision
- IIoT Gateway
- OT-IT Bridging
- Mobile Server using LTE/4G