



IoT Edge Server (ECT-MAN-SER)

The Ectron Server Class Computer (ECT-MAN) is a ruggedized industrial grade computer that comes loaded with rich feature sets and is ready for deployment on the factory floor, in outdoor junction boxes and in other harsh environments where standard computers cannot be deployed. The ECT-MAN-SER computer is Microsoft Azure Certified.

Features:

- ✓ Operating System: MS Windows 10 IoT Enterprise LTSC
- ✓ Microsoft Azure compatible
- ✓ Edge AI/ML capability
- ✓ OT-IT Bridging: Profinet, EthernetIP, MTConnect
- ✓ RADIOS: Wifi and Standard 5G/4G/LTE With GPS (Optional)
- ✓ Connectivity: Quad USB 3.0, Quad Ethernet, Dual USB 2.0, HDMI
- ✓ Processor: Intel Xeon 6 Core
- ✓ Storage: 1 TB SSD
- ✓ Memory: 16 GB ECC DDR4
- ✓ Operating Voltage: +20 to +30V DC
- ✓ Operating Temperature : -40°C to +85°C
- ✓ 90% non-condensing humidity
- ✓ Connect and process up to 800 sensors
- ✓ Process data locally or send to Azure Cloud
- ✓ Aggregate ECT-ECI computers or other Edge devices
- ✓ IP65 Enclosure



The ECT-MAN-SER computer can be used as a standard gateway, control computer, server class edge computer or mobile server and comes preloaded with edge AI/ML capability. Suitable for use with multiple Ectron Edge computers as an aggregator or as a Hub where sensors can be 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 entry.

The full stack on the computer includes a Database, MTConnect, tags to connect to Allen Bradley and Siemens PLCs or DCS systems. SCADA interfaces can be added as needed.

Applications: Equipment, Process, Facility, Environmental, Energy-Usage Monitoring

- ✓ Control Computer
- ✓ IoT Edge Server
- ✓ IoT Gateway
- ✓ OT-IT Bridging
- ✓ Mobile Server using LTE/4G



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