

Energizing Tomorrow

Off-Grid EV Charging With Solar Energy and Storage



System Requirements

- A unified IPC unit, equipped with CAN port, serial, I/O, LTE, and Wi-Fi functionalities, designed exclusively for seamless EV charging data collection and secure cloud connectivity
- A robust, industrial-grade solution renowned for its enduring durability, ensuring consistent performance even in the harshest environments
- Engineered to withstand a wide range of temperatures, assuring dependable operation across diverse climates and locations
- Necessitates an intuitive GUI for immediate deployment, streamlining the development process, and facilitating effortless data transfer from the edge to cloud

Product Highlights



UC-8200 Series Arm-based Computer

- ISASecure IEC 62443-4-2 Security Level 2 certified, enhanced with Moxa Industrial Linux 3 Secure for cybersecurity
- Ensures stable wireless connection with network keep-alive and failover
- Crash-free file system for robust data protection and system reliability
- Automated failback for seamless network transition during irregularities
- User-friendly GUI streamlines development process for immediate use



ioLogik E1200 Series Ethernet Remote I/O with 2-port Ethernet Switch

- Supports RESTful API for IIoT applications
- Simplifies I/O management with MXIO library for Windows or Linux
- Wide operating temperature models available for -40 to 75°C (-40 to 167°F) environments



Amidst the electric vehicle (EV) revolution, the demand for robust charging infrastructure has never been more pressing. The integration of solar power and advanced battery storage has brought forth a groundbreaking off-grid solution for 100% sustainable EV charging. This innovative approach goes beyond geographical limitations, facilitating seamless deployment. Robust IPCs are central to this solution, replacing single-board computers. The client has selected them carefully to ensure sustainability in the changing energy industry. The meticulous analysis of solar and EV data requires efficient processing and transmission via 4G LTE to the cloud. Critical to this process are durable, easily deployable computers compatible with a variety of connections, seamlessly interfacing with Ethernet switches, LTE networks, CANbus, and RS-485. Thus, prioritizing enduring product support, encompassing both hardware and software, has become of paramount importance.

Why Moxa

Moxa's UC-8200 Series Arm-based computers, featuring LTE and CANBus support, provide a comprehensive and efficient solution for versatile terrains. The integrated approach is further enhanced by the inclusion of ioLogik E1200, streamlining critical components for unified management. This singular-source supplier model simplifies procurement and ensures a seamless after-sales service, providing a reliable support system. With a remarkable lifespan of 5 to 10 years, the UC-8200 Series exemplifies our dedication to enduring quality. The incorporation of Moxa Industrial Linux 3 (MIL3) guarantees sustained support, delivering feature updates, bug fixes, and security patches throughout the system's life-cycle, safeguarding your investment and bolstering operational reliability.

