

Speed Up BESS Deployments With Secure and Reliable Connectivity



System Requirements

- Global-ready cellular router to enable secure and stable connectivity with deployment flexibility
- Securely connect critical subsystems while preventing unauthorized access and cross-device threats
- Remote support for distributed, unmanned C&I BESS sites to minimize field service costs and ensure service reliability

Why Moxa

- Global model that complies with regional requirements to simplify worldwide deployments
- GuaranLink auto-recovery ensures seamless and reliable connectivity
- DPI and VLAN to prevent unauthorized access to the network
- MRC provides centralized management and monitoring of globally distributed devices, group management, and secure remote access

Featured Products

OnCell G4308-LTE4

8-port industrial LTE Cat. 4 secure cellular routers



Moxa Remote Connect (MRC)

Remote connection management platform for secure remote access



For remote or difficult-to-wire commercial and industrial battery energy storage system (C&I BESS) deployments, LTE networks help lower cabling costs and streamline installation efforts. By combining a cellular router, firewall, and switch, the OnCell G4308-LTE4 Series not only meets these critical connectivity needs, but also saves more than 50% on power consumption.

Moxa Solutions

C&I BESS containers, often found in factories, in commercial basements, or next to solar panels, need to transmit data to an energy management system (EMS). Physically wiring these sites is costly and time-consuming. Many businesses also prefer BESS containers to be part of independent network architectures, disconnected from internal networks and managed by system integrators.

The OnCell G4308-LTE4 Series offers universal LTE communication (UN) models to simplify global BESS container deployments, significantly reducing material management complexities. The GuaranLink cellular auto-recovery mechanism ensures reliable and persistent connectivity even in unstaffed locations, such as BESS containers deployed in rural areas. The OnCell G4308-LTE4 Series also provides robust security. VLAN functionality allows administrators to isolate different internal applications between subsystems for enhanced security. Meanwhile, embedded Deep Packet Inspection (DPI) examines network protocol packets to prevent unauthorized access.

With Moxa Remote Connect (MRC), operators can easily visualize the health and status of all deployed cellular routers and connected devices at scattered container sites. MRC's secure remote access enables fast troubleshooting and real-time diagnostics while offering a range of access control options for third-party maintenance.

