MOXA®

Harness the Flow

Conquering the flux and simplifying energy management
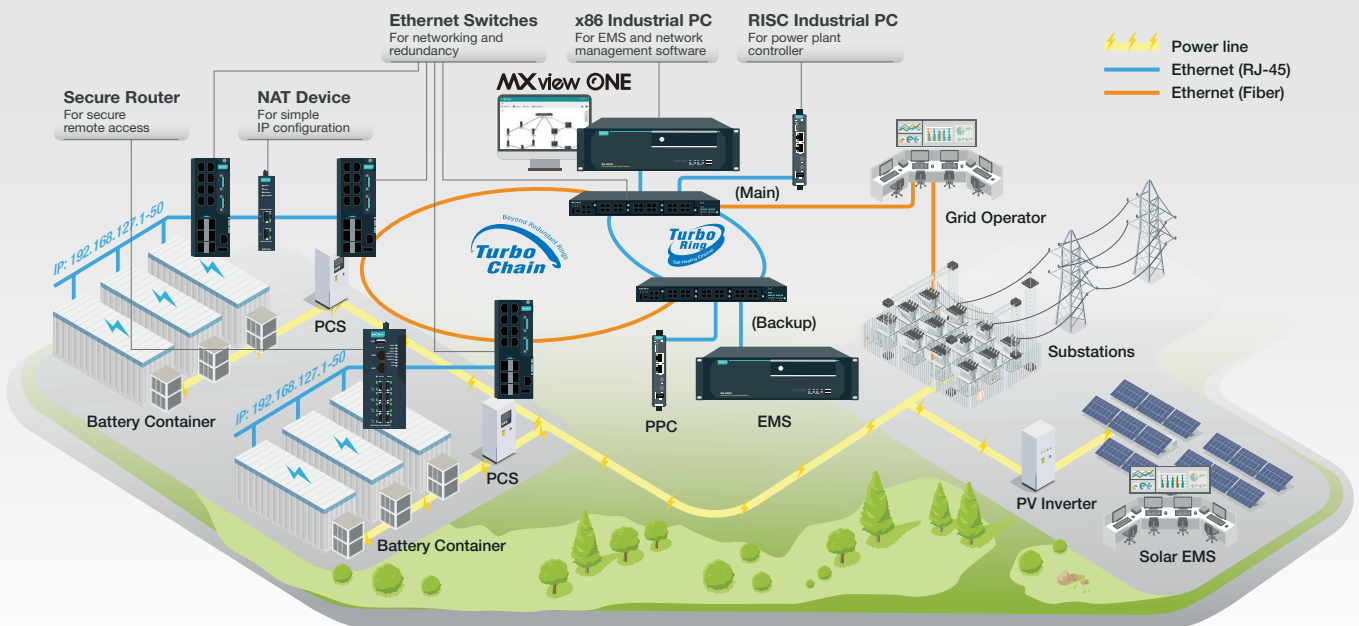

Coordinating Communication Between BESS, PCS, and EMS Is Difficult

The major hurdles are meeting deadlines and finding skilled professionals in network connectivity and the deployment of the appropriate energy storage assets.

A Complex Network Topology to Ensure Stable Operations and Smooth Management

Achieving the right balance between high availability and secure operations for BESS networks is an enormous challenge.

Moxa's Solutions for Grid-connected Battery Energy Storage Systems

Ethernet Switches
For networking and redundancy

x86 Industrial PC
For EMS and network management software

RISC Industrial PC
For power plant controller

Power line
Ethernet (RJ-45)
Ethernet (Fiber)

Secure Router
For secure remote access

NAT Device
For simple IP configuration

MXview ONE

IP: 192.168.127.1-50

Turbo Chain

Turbo Ring

(Main)

Grid Operator

Substations

PCS

IP: 192.168.127.1-50

PCS

(Backup)

PPC

EMS

Battery Container

Battery Container

PV Inverter

Solar EMS

Simplicity — Speeding Up Project Turnaround

Simplified Design
Visualized monitoring and mass configuration tools to reduce commissioning time for EPC/SI

Communication Professionals
Deploying over 7,500 SASs and monitoring more than 10 GWh of BESS

Agile Local Services
Providing global network technical services to minimize engineers' workload

Availability — Enabling Hassle-free Networking

Scalable and Reliable
Comprehensive networking solutions for a variety of energy storage scenarios

Ease of Operation
Managing thousands of communication devices simultaneously and remotely

Reducing Cyberthreats
Defense in depth for critical devices and enhanced security based on IEC 62443

BESS Product Portfolio at a Glance

Reliable and Secure Network Connections

Ethernet Switches
The EDS/RKS family for Ethernet connectivity and redundancy

Secure Routers
The EDR Series for cybersecurity requirements

Industrial NAT
The NAT Series for simple IP address configurations

Automatic Backup and Configurations
The ABC Series for device configurations and maintenance

EMS Servers	Power Plant Controllers	BESS Network Management Software

x86 Computers
The DA Series IEC 61850 rackmount computers for EMS servers

Arm-based Computers
The UC family for power plant controllers
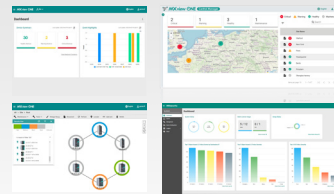
MXview ONE
MXsecurity
MXview ONE Central Manager
MXview Power

Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things (IIoT). With over 35 years of industry experience, Moxa has connected more than 94 million devices worldwide and has a distribution and service network that reaches customers in more than 85 countries. Moxa delivers lasting business value by empowering industries with reliable networks and sincere service.

Information about Moxa's solutions is available at www.moxa.com.

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