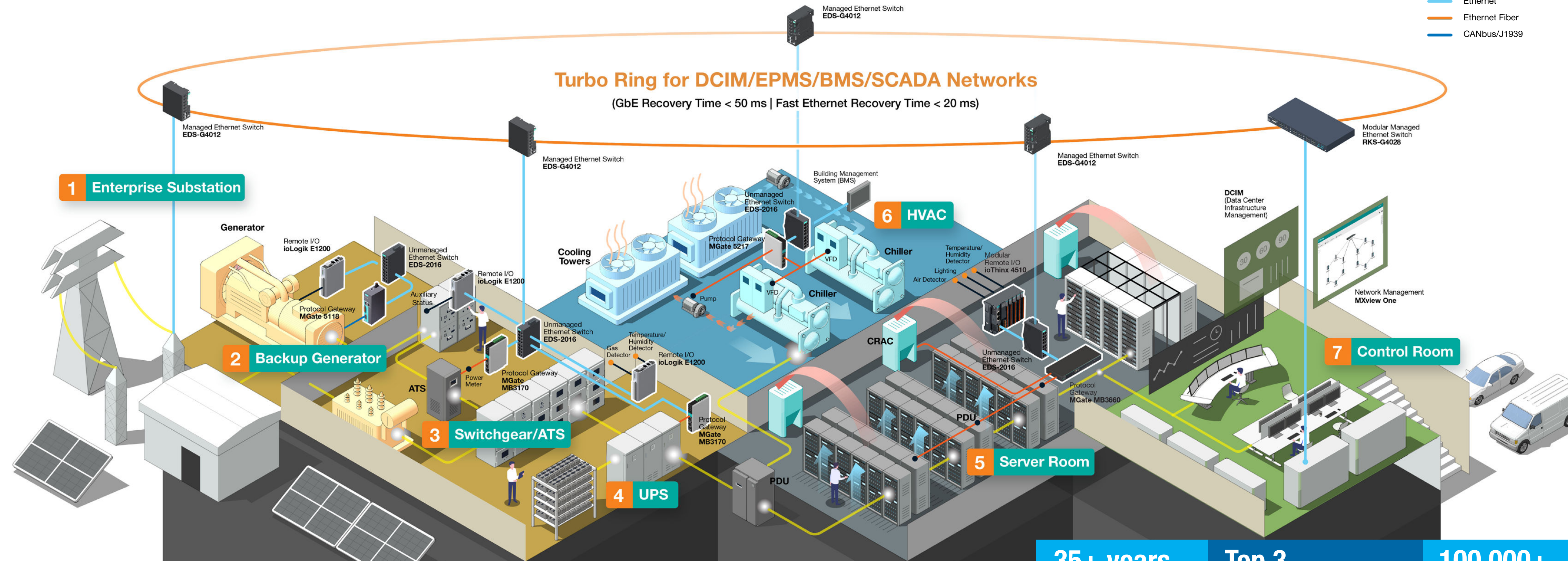


A Single Integrated Network for Data Center Infrastructure



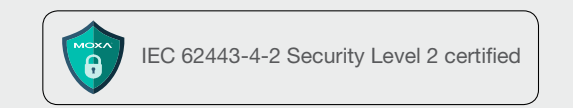
- Power
- Serial/Modbus
- I/O
- Ethernet
- Ethernet Fiber
- CANbus/J1939

Comprehensive Portfolio for Reliable DCI Connectivity

1 IEC 61850-3 Enterprise Substation SCADA Computer DA Computer PRP/HSR Ethernet Switch PT-G500/G7000 IEC 61850 MMS PRP/HSR Protocol Gateway MGate 5119 Modbus DNP3/101/104 IEC 61850 MMS Ethernet Switch EDS-4000/G4000 Modbus J1939 Protocol Gateway MGate 5118 Modbus Remote I/O ioLogik E1200 Modbus	2 Backup Generator Remote I/O ioLogik E1200 Modbus	
3 Switchgear/ATS (Automatic Transfer Switch) Ethernet Switch EDS-2000 Ethernet Switch EDS-4000/G4000 IEC 61850 MMS PRP/HSR Ethernet Switch PT-G500 Protocol Gateway MGate MB3000/3000I Modbus Remote I/O ioLogik E1200 Modbus SNMPv2c Panel Computer MPC-2070	4 UPS Serial Device Server NPort 5000 RS-232/422/485 Protocol Gateway MGate MB3000 Modbus Protocol Gateway MGate MB3660 Modbus Serial Device Server NPort 5000 RS-232/422/485 Modular Remote I/O ioThinX 4510 Modbus SNMPv3	5 Server Room Ethernet Switch EDS-2000 Ethernet Switch EDS-4000/G4000 IEC 61850 MMS PRP/HSR Protocol Gateway MGate MB3660 Modbus Network Management Software MXview One Ethernet Switch RKS-G4028 Secure Router EDR-G9010
6 HVAC Ethernet Switch EDS-2000 Ethernet Switch EDS-4000/G4000 IEC 61850 MMS PRP/HSR Protocol Gateway MGate 5217 Modbus BACnet/IP Network Management Software MXview One Ethernet Switch RKS-G4028 Secure Router EDR-G9010	7 Control Room Ethernet Switch EDS-2000 Ethernet Switch EDS-4000/G4000 IEC 61850 MMS PRP/HSR Protocol Gateway MGate 5217 Modbus BACnet/IP Network Management Software MXview One Ethernet Switch RKS-G4028 Secure Router EDR-G9010	

Our Successes Around the World

35+ years of Experience in Critical Infrastructure Automation	Top 3 Cloud Service Providers Use Moxa Products in Their Data Centers	100,000+ Moxa Products Installed in Data Centers
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Simple Integration

Enter the new era of connectivity in data center infrastructure (DCI)



www.moxa.com

The Need for Efficiency



Boost Resilience

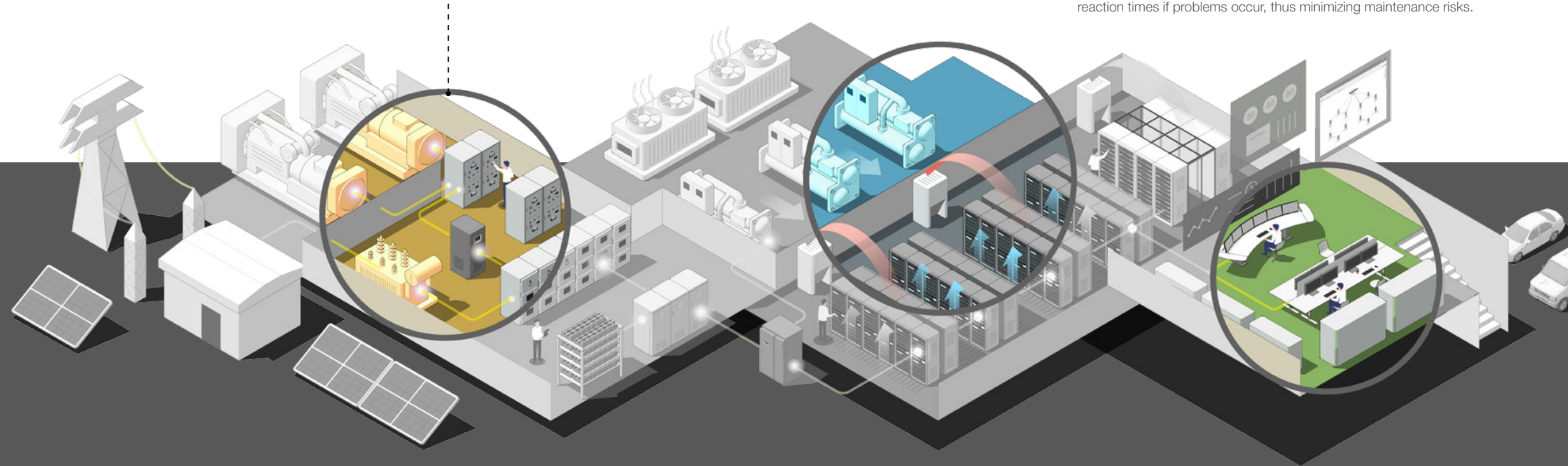
Modern consumers' demand for large data center reliability has increased from 99.982% to 99.995%. This phenomenon has made 2N+1 power supply systems mainstream. As these systems are driven by net-zero emissions power sources, data centers have integrated renewable energy with their existing power sources. However, this complicated power system design makes it difficult to ensure operations are uninterrupted.

Gain Full Control

To further optimize energy efficiency, the cooling requirements of the servers must be calculated and controlled precisely. However, because computing needs may vary and the surrounding temperatures and humidity may fluctuate drastically, a better understanding of these variables is necessary to accurately predict the energy required.

Get the Full Picture

To optimize energy consumption and allow a DCI system, for example, to make automatic adjustments based on AI calculations, OT data from various systems—such as an Electrical Power Management System (EPMS), Building Management System (BMS), or Power SCADA—must be integrated into Data Center Infrastructure Management (DCIM). This allows IT staff to get a more precise view of all the subsystems in the data center while avoiding PUE distortion. Having the ability to see the system in its entirety helps shorten reaction times if problems occur, thus minimizing maintenance risks.



Evolve Your DCI Connectivity Solution For Better Efficiency

From Segregated to Integrated



To realize cross-system data analysis and collaboration, data center infrastructures (DCIs) must transition from siloed OT networks to fully integrated architectures. Achieving seamless connectivity and eliminating complexity in OT network integration are key to improving operational efficiency.

From Tunnel Vision to the Big Picture



To optimize power usage effectiveness (PUE) in rapidly evolving data centers, monitoring points must increase tenfold to enable precise system visualization and optimization through efficient data collection. Massive data volumes necessitate efficient data collection for complete system visualization and optimization. To handle increasing data needs, more efficient, larger networks are required to provide stable, lag-free data transmissions.

From Reactive to Proactive



To maintain a consistent power supply for increasingly complex systems, equipment must react to electrical power monitoring systems (EPMS) commands without delay. A highly efficient and stable network infrastructure enables real-time responses, shifting management from reactive to proactive, thus mitigating operational risks. Success in this transformation hinges on a reliable and scalable facility network.

From Option to Obligation



To meet the demands of becoming critical infrastructure, data centers must now view cybersecurity not merely as a best practice, but as a legal and operational imperative. Governments worldwide—through laws like NIS2, CRA, and CIRCIA—are enforcing stricter standards. Operators must now embed security across systems, supply chains, and operations. In today's environment, trust is built on resilience, and resilience begins with cybersecurity.



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 111 million devices worldwide and has a distribution and service network that reaches customers in more than 91 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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