MOXA®

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Edge Connectivity

MGate MB3170/MB3270 Series Gateways
- 1-port and 2-port advanced serial-to-Ethernet Modbus gateways
- Built-in Ethernet cascading for easy wiring

MGate MB3660 Series Gateways
- 8-port and 16-port Modbus serial to Modbus TCP gateway
- 2 Ethernet ports with the same IP or dual IP addresses
- Supports agent mode with active polling capability

NPort 6650 Series Device Servers
- Up to 32 ports for high-density serial port requirements
- Supports Ethernet redundancy (STP/RSTP/Turbo Ring) through a modular design
- Supports DES/3DES/AES for highly secure data transmissions

Edge Connectivity

Network Infrastructure

ioLogik E1200 Series Remote I/Os
- 2-port Ethernet switch for daisy-chain topologies
- Supports Modbus TCP, EtherNet/IP, SNMPv1/v2c, and RESTful API

ioThinx 4510 Series Modular Remote I/Os
- Supports up to 32 I/O modules
- Supports Modbus/RTU for serial data collection
- Supports Modbus/TCP, SNMPv1/v2c/v3, RESTful API and MQTT

EDS-408A Ethernet Switches
- Turbo Ring and Turbo Chain millisecond-level recovery times
- PROFINET or EtherNet/IP enabled by default
- Supports MXstudio for easy, visualized industrial network management

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 30 years of industry experience, Moxa has connected more than 57 million devices worldwide and has a distribution and service network that reaches customers in more than 70 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.
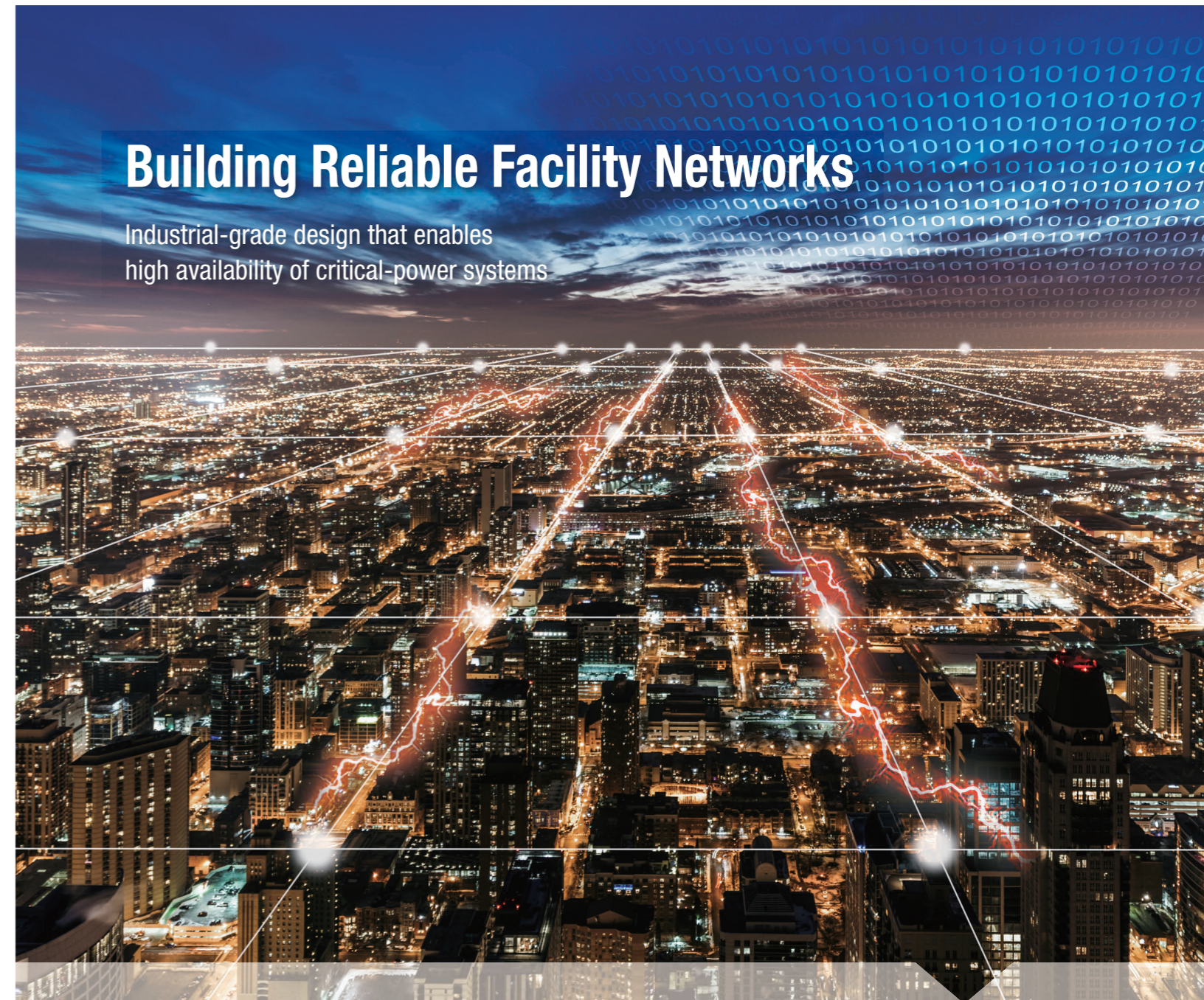
Building Reliable Facility Networks

Industrial-grade design that enables high availability of critical-power systems

Critical Power Systems for:

Refinery   **Semiconductor**   **Data Centers**   **Telecoms**

COLTERLEC™
Australian Distribution Partner
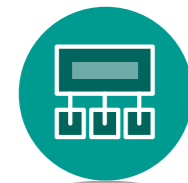Call 1300 36 26 26 | sales@colterlec.com.au | www.colterlec.com.au

www.moxa.com

How to Ensure That Your Critical Power Systems are Reliable

Uninterrupted electrical power is essential for mission-critical facilities such as power plants, 24-hour production facilities, and communications facilities.

The key to success is using reliable networks to continuously improve the availability of power by managing power equipment, such as automatic transfer switch (ATS), UPS controller, remote power panel (RPP), power distribution unit (PDU), and generator, and closely monitoring environmental conditions.

Serial
Ethernet
I/O

Utility Power

Server Room

Control Room

Generator Room

UPS Room

Electricity Room

Air Flow Detector
Lighting
Temperature/Humidity Detector
IKS-G6824A
24G-port full Gigabit managed Ethernet switch
Millisecond Recovery

PDU/RPP
(Status of current transformers, circuit breakers and meters)

ioThinx 4510
Modular remote I/O

MGate MB3660
8 and 16-port redundant Modbus gateways

Water leak sensor

Temperature/Humidity Detector
ioLogik E1200
Ethernet remote I/O
Gas Detector

UPS Controller

EDS-408A
8-port managed Ethernet switch

DA-681C
x86 1U 19-inch rackmount computer (Available in Q4, 2019)

Generator

Fuel-Level Sensor

Engine Control Unit

EDS-408A
8-port managed Ethernet switch

MGate MB3170
1-port serial-to-Ethernet Modbus gateway

EDS-408A
8-port managed Ethernet switch

Power Meter

MGate MB3170
1-port serial-to-Ethernet Modbus gateway

ATS
(Status of circuit breakers, meters and relays)

Circuit Breaker

Unifying Interface for Data Acquisition

Supports protocol conversion, such as Modbus RTU to Modbus TCP, I/O to SNMP, and serial to Ethernet to deliver a unified interface for data acquisition.

Tailored Features to Provide Flexibility

Supports tailored features, such as simple control logic or Ethernet cascading, to provide more flexibility and scalability to meet the different demands of mission-critical facilities.

Rugged Design to Ensure High Availability

Supports industrial-grade features to withstand harsh environments, including EMC resistance, wide-temperature operability, as well as millisecond-level network recovery time.
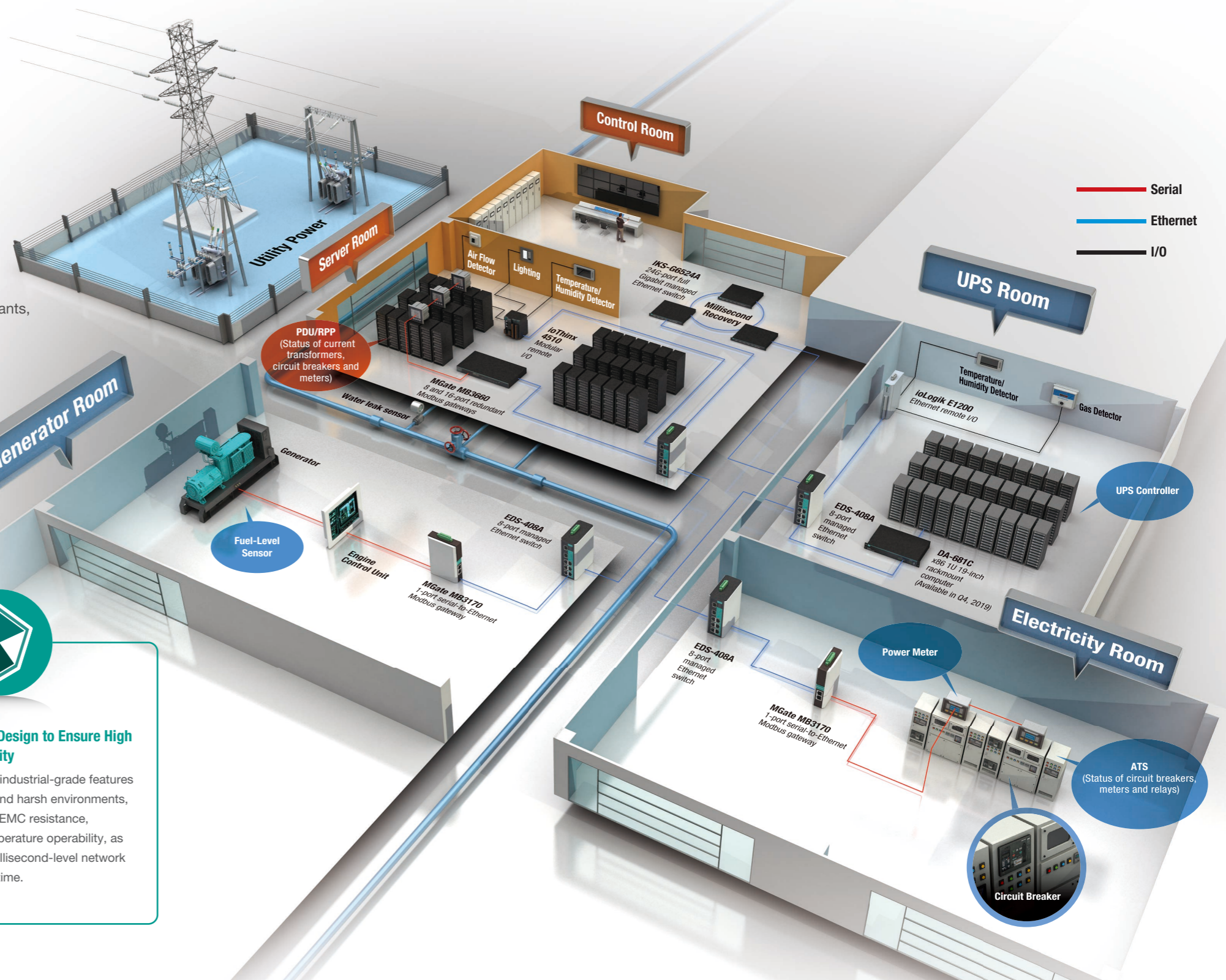
Critical Power Management

To optimize power availability in mission-critical facilities, it is essential to manage equipment based on their status acquired through relays, circuit breakers, and meters.

▶ **Reliable:** Industrial-grade design, including a -40 to 75°C wide operating temperature, level 4 EMS protection, and Turbo Ring/Turbo Chain millisecond-level network recovery time.

▶ **Flexible:** Industrial computers that support a variety of installation options, performance ranges, and peripheral I/O interfaces.

▶ **Effortless:** High-port density Modbus gateways that support data transmission from multiple field devices.

Environmental Monitoring

To protect against extreme temperature that dilute power equipment's operations, it is essential to ensure that all environmental conditions are monitored and controlled.

▶ **Flexible:** A comprehensive portfolio of switches, I/Os, device servers, protocol gateways, and embedded computers.

▶ **Scalable:** The Ethernet gateways and I/Os support Ethernet cascading for easy and cost effective deployment.

▶ **Effortless:** The smart I/Os support SNMP and Modbus TCP to simplify data acquisition for IT and OT engineers.