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Press Release

CTC Union Introduces IEC 61850-3 & IEC 62443-4-2 Certified 10G L3 Ethernet Switch for Smart Grid and Substation Networks

IPR-AG2404XSM-8C Series delivers secure, resilient, and high-performance connectivity for mission-critical power infrastructure.

Taipei, Taiwan, November 18, 2026 - As power utilities accelerate digital transformation, smart grids and digital substations demand increasingly reliable, secure, and high-performance communication networks. Growing network complexity, cybersecurity threats, and the need for uninterrupted operations are driving the adoption of advanced industrial Ethernet solutions.



CTC Union Technologies announces the launch of its IPR-AG2404XSM-8C Series, an industrial Layer 3 managed 10G Ethernet switch certified to IEC 61850-3 and IEC 62443-4-2. Designed for modern power infrastructure, the series combines high-speed 10G fiber aggregation, seamless network redundancy, precise time synchronization, and industrial cybersecurity to strengthen network resilience and operational reliability.

Building Resilient and Secure Power Networks

In mission-critical power environments, network interruptions can affect essential monitoring, control, and automation systems. The IPR-AG2404XSM-8C Series supports PRP (Parallel Redundancy Protocol) and HSR (High-availability Seamless Redundancy) to enable seamless communication redundancy and minimize network downtime. With advanced Layer 3 routing and 10G fiber aggregation, the series provides scalable network connectivity across digital substations and utility infrastructure. Integrated IEEE 1588 PTP time synchronization supports accurate event recording and coordinated network operations,

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helping utilities improve system visibility and fault analysis.

Industrial Cybersecurity and Reliability

Cybersecurity and environmental reliability are essential for modern power networks. Certified to IEC 62443-4-2, the IPR-AG2404XSM-8C Series incorporates industrial cybersecurity capabilities to strengthen network protection and secure device management. Its IEC 61850-3 certification further demonstrates suitability for demanding substation environments, supporting reliable operation in electrically harsh conditions.

Enabling the Future of Smart Grid Infrastructure

Featuring 24 Gigabit Ethernet ports, including 8 RJ45/SFP combo ports, and 4 multi-rate 10G SFP+ uplink ports, the IPR-AG2404XSM-8C Series offers flexible connectivity for both existing and evolving power network architectures.

By integrating high-speed connectivity, seamless redundancy, precise timing, and industrial cybersecurity into a single platform, CTC Union helps power utilities build secure, resilient, and future-ready communication networks for smart grids, digital substations, and substation automation.

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About CTC Union

Founded in 1993, CTC Union Technologies is a leading manufacturer of networking and communication equipment with ISO 9001 and ISO 14001 certifications. With in-house R&D and manufacturing capabilities, the company develops solutions aligned with IEC 62443 cybersecurity standards to enhance network security across industries.

CTC Union offers a comprehensive portfolio of industrial Ethernet, PoE, and certified networking solutions designed for harsh environments, including EN50155 and E-Mark compliant products. Leveraging over 30 years of experience, the company delivers reliable network access and FTTP CPE solutions worldwide, serving as a trusted partner in global connectivity。

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