

## Product Press Release

### CTC Union Launches IGR-A804SM Series Cyber-Hardened Layer 3 Managed PoE Switches for Mission-Critical Industrial Networks

*New Industrial Layer 3 PoE Switch Delivers Enhanced Cybersecurity, High-Speed Fiber Connectivity, and Rugged Reliability for Harsh Environments*

Taipei, Taiwan – CTC Union Technologies today announced the launch of the **IGR-A804SM Series**, a new generation of cyber-hardened Layer 3 managed PoE Ethernet switches designed to meet the growing demands of industrial automation, intelligent transportation systems, critical infrastructure, military communications, and utility networks.

#### Layer 3 PoE Switch with IEC 62443-4-2 Certified



As industrial networks continue to converge with IT systems, organizations require networking solutions that provide not only reliable connectivity but also robust cybersecurity protection. Developed following secure-by-design principles aligned with IEC 62443 cybersecurity practices, the IGR-A804SM Series helps operators strengthen network resilience while supporting modern Industrial IoT applications.

The IGR-A804SM Series features **8 Gigabit IEEE 802.3af/at PoE+ ports**, delivering up to 30W per port to power IP cameras, wireless access points, industrial controllers, sensors, and other edge devices. In addition, **4 x 100M/1G/2.5G SFP slots** provide flexible fiber uplink options for long-distance transmission and high-bandwidth network aggregation.

As a **Layer 3 managed switch**, the IGR-A804SM Series supports advanced routing capabilities that enable efficient traffic management, network segmentation, and scalable deployment across distributed industrial infrastructures. Layer 3 functionality is increasingly important in large-scale industrial, transportation, and utility networks where performance, security, and network availability are critical.

Built for harsh operating environments, the switch incorporates a fanless design, high MTBF architecture, 4KV surge protection, wide-temperature operation, and dual 48VDC redundant power inputs to ensure continuous operation in demanding field conditions.

## Key Features

- Layer 3 Managed Industrial Ethernet Switch
- 8 x 10/100/1000Base-T IEEE 802.3af/at PoE+ Ports
- Up to 30W PoE Output per Port
- 4 x 100M/1G/2.5G SFP Fiber Uplink Slots
- Cyber-Hardened Design Following IEC 62443 Security Principles
- Fanless Design for Enhanced Reliability
- 4KV Surge Protection
- Wide Operating Temperature Support
- Redundant 48VDC Power Inputs
- High MTBF for Mission-Critical Applications

The IGR-A804SM Series is ideal for applications requiring reliable power delivery, secure communications, and uninterrupted network operation, including:

- Industrial Factory Automation
- Intelligent Transportation Systems (ITS)
- Smart City Infrastructure
- Video Surveillance Networks
- Utility and Energy Facilities
- Military and Defense Communications
- Data Centers and Remote Industrial Sites

As industrial operators face increasing demands for network performance, cybersecurity compliance, and operational reliability, the IGR-A804SM Series combines advanced Layer 3 networking capabilities, PoE power delivery, fiber connectivity, and cyber-hardened protection into a single rugged platform designed for mission-critical environments.

For more information about the IGR-A804SM Series, please visit CTC Union Technologies or contact your local sales representative.

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### About CTC Union

Founded in 1993, CTC Union Technologies designs and manufactures high-quality network communication products, including Industrial Ethernet, PoE, and EN50155-certified switches. Certified to ISO 9001 and ISO 14001, and following the IEC62443 security standard, the company leverages over 30 years of telecom experience to provide reliable, heavy-duty solutions, becoming a leading global supplier of network access and FTTx equipment.

