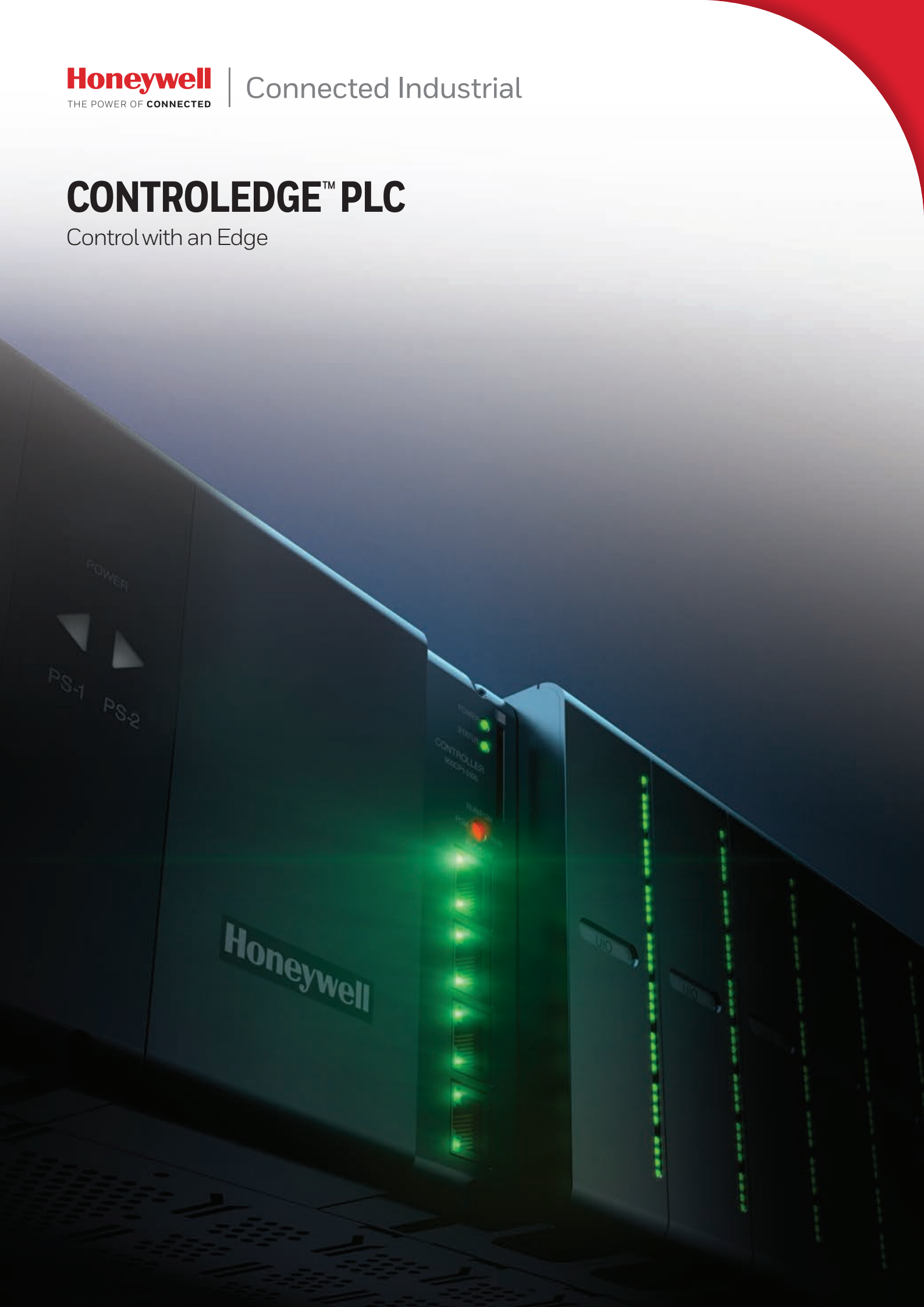
Honeywell
THE POWER OF CONNECTED | Connected Industrial

CONTROLEDGE™ PLC

Control with an Edge



A New Generation of Controllers

Honeywell's new PLC is part of the ControlEdge family, a next generation family of controllers providing unprecedented connectivity through all levels of process and business operations. The result is optimized operations and maintenance efficiencies that liberate personnel from manual processes. ControlEdge PLC is one of our first controllers supporting Honeywell's IIoT-ready initiative.

Experion Integration

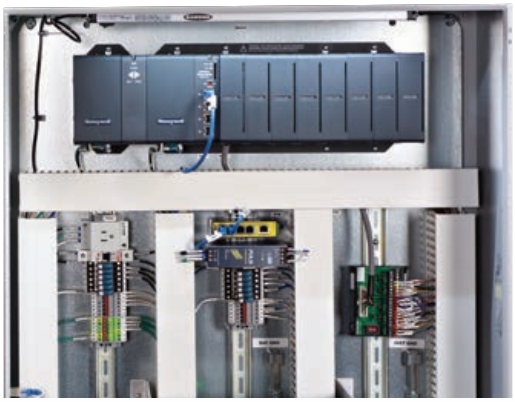
- *Standardization of solution*
- *Leaner control room*
- *Reduced lifecycle maintenance*

Universal I/O-LEAP™ Lean Project Execution

- *Spares reduction*
- *Less infrastructure*
- *Improved project schedule, cost, risk*
- *Remote configuration*

ControlEdge™ PLC, when combined with Experion,® reduces integration costs for balance of plant operations, minimizes downtime through unified support, decreases risk with embedded cyber security, and lowers total cost of ownership through extended system lifecycle.

Experion and ControlEdge PLC leverage a common HMI platform, provide faster field device commissioning, and improve device diagnostics. OPC UA protocol and built-in cyber security provide smooth integration to a range of instruments, equipment and software from multiple vendors. The first PLC to offer HART-enabled Universal I/O offers remote configuration and late design change flexibility for improved project implementation.



How is the ControlEdge PLC Different?

Experion Integration

Honeywell can serve as your single vendor for all automation needs, including the DCS, PLC, SCADA, Field Device Manager for asset management, and a Panel PC—all with seamless integration and support. Coordination is easier with fewer teams and direct access to system knowledge, and auto-configuration of PLC data points in Experion Server means easy updates and faster project deployment. A single point of responsibility reduces both risk and cost with fewer coordination errors, less engineering, faster installation, less training and reduced hardware.

Field Device Manager (FDM) provides fast and accurate commissioning of field devices and simplified diagnostics, resulting in fewer site trips. Combining FDM with the HART IP open standard offers design flexibility and protection of existing site investments.

Operator effectiveness is increased with a common HMI across system applications. An integrated solution provides pre-built diagnostics, an integrated alarm summary, and history, trending and reporting on a single Experion infrastructure. Results are fewer operator and engineering stations, less hardware and wiring, reduced IT licensing and training, fewer errors, and increased efficiency and availability. You benefit from reduced cost over the lifecycle with smaller footprint and easier maintenance.

The Experion Panel PC, or Experion PPC, provides a touch user interface and consistent HMI for an operator either in the field or in the control room. Consistent displays to show ControlEdge PLC alarms, trends, diagnostics and history results in better emergency response and improved plant uptime.

ControlEdge Builder is an IEC61131-3 compliant integrated configuration tool to easily design, configure, program, and maintain your PLC investment. The same tool is used by both ControlEdge PLC and ControlEdge RTU, reducing training and maintenance cost at facilities using both products.

Universal I/O

ControlEdge PLC offers a variety of I/O choices for flexibility and reduced system cost. In addition, HART-enabled Universal I/O means no additional costly hardware to support HART. The first PLC to offer Universal I/O provides remote configuration and design change flexibility for improved project implementation. Universal I/O enables the entire cabinet to become a standard part, with I/O channels quickly configurable to allow modules to serve as analog or digital and as input or output. Engineers can quickly accommodate late configuration changes remotely with a simple software configuration change.

Universal I/O provides both configuration efficiency and flexible design, thereby reducing project schedule, cost and risk. Universal Channel Technology eliminates tedious documentation updates for updated cabinet configurations and simplifies maintenance. The reduction in types of I/O modules reduces the number of spares needed and associated holding costs. With reduced or eliminated marshalling necessary, there are fewer cabinets, reduced footprint, and lower infrastructure cost.

OPC UA

Built on a proven and capable platform, ControlEdge PLC provides an IIoT-ready open platform that enables users to better leverage data across their assets. Use of the OPC UA protocol offers smooth integration to a broad range of instruments while providing built-in cyber security. Interoperable multi-level and multiplatform open communication provides flexible and scalable design, enabling standardization with less hardware.

An IIoT-ready platform enables more direct access to cloud based applications for visualization and analytics. Direct access and reduced gateways delivers investment protection and easier maintenance, and therefore reduced cost and risk.

Cyber Security

Our embedded cyber security supports compliance, reduced risk, and availability. Features include secure boot to prevent uploading of unauthorized software, a built-in firewall to reduce exposure to denial-of-service attacks and message flooding, and a certified secure development lifecycle to ensure security is built-in from the start. PLC communication is secured using IPSec to prevent man-in-the-middle attacks and unauthorized access. ControlEdge PLC supports encryption, easy configuration and certificate-based authentication.

In addition, Honeywell offers world-class Industrial Cyber Security Solutions and Managed Services that help protect the availability, safety and reliability of industrial control systems and site operations.

Honeywell's Solution Reduces Cost and Unplanned Downtime

Reducing time for commissioning and minimizing troubleshooting allows early startup. In addition, there is reduced unplanned downtime associated with the ability to remotely diagnose equipment.

OPC UA Protocol

- *Open communications protocol*
- *Smooth device integration*
- *Easy configuration*

Fully Integrated Cyber Security

- *Security built into PLC and Experion*
- *Preserve safety and availability*
- *Industrial cyber security solutions and managed services*

Lifecycle Investment Protection

- *Equipment integration*
- *Upgrades*
- *Migrations*

Why Choose Honeywell?

Choosing Honeywell provides distinct support advantages as well as access to our broad portfolio. Honeywell helps customers cost-effectively manage their control and safety infrastructure in the face of constantly evolving technology with extended lifecycle support, flexible and easy migration paths, and virtualized upgrade capabilities.

Lifecycle Investment Protection

Honeywell has continually guarded customer investments by providing easy upgrade paths to the latest control system technology. Honeywell continues to evolve and innovate to bring significant advances in automation technology, while also providing a smooth migration path to today's technology when the time is right for you. We have a wealth of experience in migrating legacy control and safety systems, no matter who the manufacturer.

Service and Support

Every Modular Control System installation is backed by Honeywell's comprehensive one year Warranty Support through our global Technical Assistance Centers (TAC). From installation and commissioning to start-up and ongoing operations, TAC has you covered with timely and expert local support. Factory trained and experienced TAC engineers provide telephone technical support, prompt answers to questions regarding procedures, documentation, operation, service, training and system enhancements. TAC support also includes a review of operational procedures, software analysis, and diagnostic evaluations when required.

For support services, ask for Total Care Services for Modular Systems. Extended support of installed assets has proven to be key to improved control system reliability, reduced downtime, increased plant availability, and lower operating costs. Our Total Care Field Service contracts provide on-demand support and services to keep your automation assets reliable, efficient and modern.

For more information

To learn more about Honeywell's ControlEdge PLC, visit www.honeywellprocess.com/PLC or contact your Honeywell account manager.

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