

OPTIMIZE EFFICIENCY WITH AN ENHANCED I/O SOLUTION

Modernize from
FLEX Ex I/O to 1718 Ex I/O or 1719 Ex I/O



**Rockwell
Automation**

Drive business growth: Move forward

As market needs and industry requirements continue to evolve, modern technologies and standards that can enhance productivity and performance are essential to stay competitive.

The FLEX Ex™ I/O has been a valuable part of our portfolio and established our commitment to meet manufacturing needs for many years. With the discontinuance of FLEX Ex I/O, it is time to modernize your architecture to the intrinsically safe 1718 Ex I/O or 1719 Ex I/O architecture. From simplifying device connectivity to improving network resilience, the 1718 Ex I/O and 1719 Ex I/O platforms can help boost overall operational efficiency.

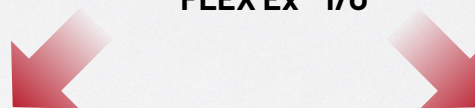
Ideal for various Process applications in industries such as Oil and Gas, Life Sciences, Chemical, Pharmaceutical, Food and Beverage, and more, the 1718 Ex I/O and 1719 Ex I/O architectures offer:

- Maximized space and cost efficiency with compact design structure
- Improved productivity with live maintenance in hazardous areas
- Easier digital transformation using EtherNet/IP™, which enables an integrated Connected Enterprise®

We will help you meet your long-term goals by proactively planning and managing your transition every step of the way to help you get the highest possible return on your automation investment.

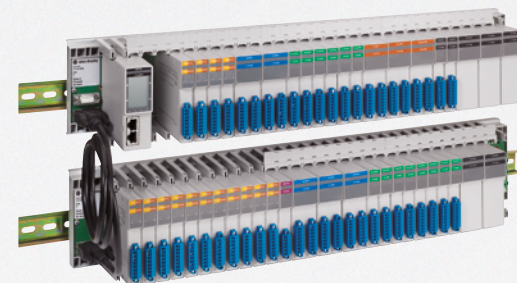


FLEX Ex™ I/O



1718 Ex I/O

(Requires Zone 1 certified enclosure)



1719 Ex I/O

Product Lifecycle

FLEX Ex I/O



ACTIVE

ACTIVE MATURE

END OF LIFE

DISCONTINUED

- **ACTIVE:** Most current offering within a product category.
- **ACTIVE MATURE:** Product is fully supported, but a new product or family exists. Gain value by migrating.
- **END OF LIFE:** Discontinued date announced — actively execute migrations and last time buys. Product generally orderable until the discontinued date¹.
- **DISCONTINUED:** New product no longer manufactured or procured². Repair/exchange services may be available.

¹Outages on specific items may occur prior to the Discontinued date.

²Limited stock may be available in run-out mode, regionally.

Gain more benefits with 1718 Ex I/O and 1719 Ex I/O

- Ease device integration in hazardous areas to The Connected Enterprise via EtherNet/IP
- Shorten configuration time and effort through the Integrated Architecture® system and Add-on Profiles (AOP) support in Studio 5000 Logix Designer® application version 24 or later, which enable a Premier Integration experience
- Maximize space and installation efficiency with a compact chassis-based design, which includes the power supply, and reduce the need for additional wiring
- Maintain uptime with Removal and Insertion Under Power (RIUP) for both 1718 Ex I/O and 1719 Ex I/O*, which enables the capability to replace modules and make connections while the system is in operation
- Improve system reliability with an optional N+1 power supply redundancy
- Increase operational efficiency with HART 7 support that is standard in all analog I/O modules

*For 1719 Ex I/O, applicable only in the absence of a potentially explosive atmosphere.

▶ **Discover how you can reduce installations, maintenance and inspection costs with [1718 Ex I/O and 1719 Ex I/O modules](#)**



Improve operational productivity for your hazardous applications

Leverage the capabilities of 1718 Ex I/O and 1719 Ex I/O to meet demanding Process requirements and boost manufacturing efficiency.

- Reduce hardware footprint and installation costs by mounting the I/O directly in hazardous zones closer to field devices
- Increase scalability for different application needs with a choice of multiple slot chassis with expandable options

1718 Ex I/O Zone 1 mounting

Available in 10-slot and 20-slot chassis, with an optional 20-slot extension chassis



1719 Ex I/O Class I, Division 2 or Zone 2 mounting

Available in 8-slot or 22-slot chassis, with an optional 24-slot extension chassis





Modernize with success with these considerations

Moving to newer technologies can help maximize efficiency and increase speed to market, which can help you stay ahead of the competition. To make this transition easy, it is important to evaluate the compatibility of the new hardware and software with your current system and process. Before initiating migration of your I/O installations, perform the following considerations:

- Identify the hazardous environment classification before selecting which intrinsically safe I/O to use
- Convert from ControlNet® to EtherNet/IP for a streamlined and integrated network connection as this migration only supports Ethernet communication
- Move to ControlLogix® or CompactLogix™ firmware revision 24 or later and Studio 5000 Logix Designer application version 24 or later to meet hardware and software compatibility
- Use the Add-On Instructions to switch between the different I/O tag structures from FLEX Ex I/O to 1718 Ex I/O or 1719 Ex I/O, which help simplify the configuration process
- Review the rewiring and installation time

▶ **Simplify wiring conversion and manage different tag structures with tools like Add-On Instructions described in [FLEX Ex I/O to 1719 Ex I/O, 1718 Ex I/O Migration Guide](#)**

▶ **Gain more insights on the deployment of EtherNet/IP with [Modernizing from ControlNet to EtherNet/IP White Paper](#)**

▶ **Verify the product ratings to match your application needs on the [Product Certifications](#) webpage**

Ready to **start your modernization journey?**

We recommend analyzing your existing operations and identifying any risks in the current processes. A thorough review will help you detect untapped technology-driven functionalities and develop the modernization roadmap based on your operational needs. It can also help mitigate the growing risk of operating obsolete machinery and makes it easier to plan the transition to leading-edge technologies.

Evaluate your options

You can execute the modernization yourself or partner with Rockwell Automation to help assess, plan and execute the best modernization strategy based on your business outcomes and needs.

Modernization resources from Rockwell Automation

- Our [LifecycleIQ™ Services](#) provide modernization and migration engineering support to help you realize the benefits of the 1718 Ex I/O and 1719 Ex I/O platforms.
- Our factory-trained field service professionals are experienced and prepared to provide on-site assessments, modernization planning, and startup and commissioning of your modernized control architecture.
- From project management to startup, we will help define and implement an effective modernization strategy that can help optimize your operations.
- Learn more about our [Modernization Services](#).

Recognized System Integrator partners

- Our [PartnerNetwork™ program](#) provides an integrated team of engineering specialists and suppliers who are leaders in the automation and manufacturing industry.
- Program Partners help to simplify implementation with effective products and solutions to accelerate the return on your investment.

Do It Yourself

- If you prefer to modernize from the FLEX Ex I/O to the 1718 Ex I/O or 1719 Ex I/O platform without assistance, Rockwell Automation provides several tools and resources that can help you plan and modernize with as little disruption as possible.
- Learn more about the available [Migration Tools](#).

To understand your options better, contact your local authorized [Allen-Bradley distributor](#) or [Rockwell Automation sales office](#) or visit rok.auto/modernization.

Simplify modernization with easy-to-use tools and resources

Rockwell Automation provides many self-service tools and resources to ease the migration process. All tools are available regardless of who performs the migration: Rockwell Automation, System Integrator, or Do It Yourself.

Installed Base Evaluation (IBE)

The [Installed Base Evaluation™ \(IBE®\)](#) service provides a thorough analysis of your critical plant assets and their condition. This site-delivered service provides detailed reports by site, area, line, machine and panel.

ProposalWorks proposal builder

The [ProposalWorks™ proposal builder](#) tool helps you create bill of materials (BOM), request for quotes (RFQ) and proposals for your automation projects directly from your computer. This tool has more than 1,800 configurators and an easy-to-use search capability to find the right products to meet your application requirements.

Integrated Architecture Builder (IAB)

The [Integrated Architecture® Builder \(IAB\)](#) tool is a graphical, user-friendly software tool that allows you to define and configure the 1718 Ex I/O and 1719 Ex I/O system architecture automatically, including a detailed bill of materials based on your current FLEX Ex I/O system.



LEARN MORE

▶ **Ease your modernization experience with the [FLEX Ex I/O to 1719 Ex I/O, 1718 Ex I/O Migration Guide](#)**

▶ **Meet more application needs with [1718 Ex I/O](#) and [1719 Ex I/O](#)**

▶ **Visit the [1718 Ex I/O and 1719 Ex I/O Modules Technical Documentation](#) webpage to access product specifications, installation instructions, user manuals, product certifications, and more**

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