Rockwell Automation

MULTI VISTA

# Chassis & Distributed I/O

Rockwell Automation® Platform Positioning

## ControlLogix®

**Chassis-based I/O**

- I/O diagnostics for detection of both system and field-side failures
- Electronic keying to help prevent replacement errors
- Wide range of modules from high performance to process control

## FLEX™, FLEX 5000™

**Process Distributed I/O**

- High-performance FLEX 5000 I/O for CompactLogix™ 5380 and ControlLogix® 5580
- High-channel density on a distributed platform

## 1719 Ex, 1715 Redundant

**Intrinsic Safety and High Availability I/O**

- 1719 Ex I/O for hazardous area locations
- 1715 Redundant I/O provides high availability for ControlLogix controllers

## Dynamix™

**Condition Monitoring**

- Integrates machine protection with your standard control system
- Dual thernet ports supporting both Linear and Device Level Ring topologies

## Compact I/O™, Compact 5000™

**Discrete Machine I/O**

- High-performance Compact 5000 I/O for CompactLogix 5380 and ControlLogix 5580
- High-density Compact I/O for CompactLogix 5370

## POINT I/O™

**Smart Machine Distributed I/O**

- Low-cost platform with lower density inputs and outputs
- Compact design makes installation easier
- Machine safety, specialty and IO-Link options available

## ArmorBlock®

**On-Machine™ I/O**

- IP67, IP67, IP69K rated modules
- Reduces wiring and panel space
- QuickConnect for tool changing application
- Analog, Digital, specialty, machine safety and IO-Link options available

**One stop solution for industrial products and services**

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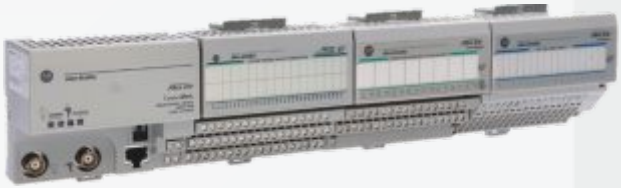
# FLEX™ I/O

## Modular Design

- Modular design allows you to select the I/O independently, termination style and network interface
- Extreme environment modules and conformal coating options support operating temperatures from -20...70 °C (-4...185 °F)

## Network Capabilities



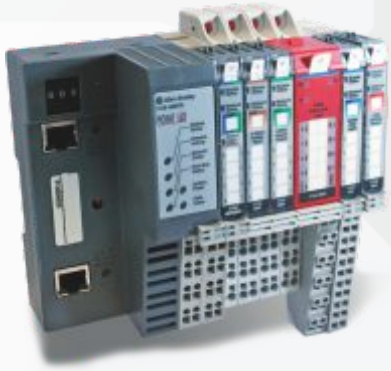
- EtherNet/IP™, ControlNet™, DeviceNet™
- Dual Ethernet ports for Linear and Device Level Ring topologies

## Multi-discipline Capabilities

- Analog I/O modules for thermocouple, RTD and HART
- Digital I/O modules support isolated inputs or outputs, protected outputs, electronic fusing, or diagnostics available on some modules
- Specialty I/O for frequency, high-speed counter and pulse counter modules

# POINT I/O™ Modules

## Modular Design



- Modular design enables independent selection of the I/O, termination style, and network interface
- Removable wiring system saves time and money during installation and troubleshooting
- Support for PLe and SIL 3 safety ratings with POINT Guard I/O™ modules

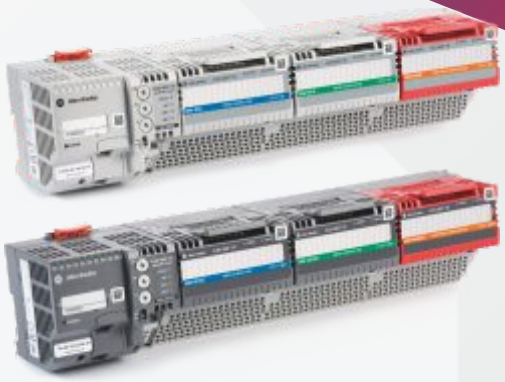
## Network Capabilities

- EtherNet/IP™, ControlNet™, DeviceNet™
- Dual Ethernet ports for both Linear and Device Level Ring topologies
- IO-Link master module supports up to four IO-Link devices with integration into Logix

## Multi-discipline Capabilities

- Digital modules supporting a wide variety of voltages and diagnostics
- Analog modules with onboard scaling and selectable input filters
- Specialty modules to support serial interfaces such as serial synchronous interface (SSI), RS-232, RS-485/RS-422

# FLEX 5000™ I/O



## Flexible Network Media and Topologies

- 1-Gb embedded switch technology for Device Level Ring, Linear, Star, and Parallel Redundant Protocol (PRP) topologies
- Dual Ethernet ports available as 2 Copper or 2 Fiber SFP ports, compatible with any Stratix® SFP

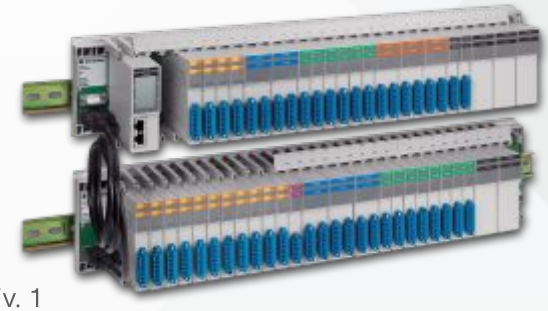
## Flexible Design and Maintenance

- Modular design supports Removal and Insertion Under Power (RIUP) and on-line addition of modules
- Consistent I/O wiring allows direct termination of 2-, 3-, and 4-wire devices in addition to consistent power wiring across terminal bases with jumpers
- Mount up to 16 I/O modules in either a horizontal or vertical mounting without de-rating, interconnect cable available for bank expansion
- Standard operating temperatures from -40...70 °C, XT variant available for all catalogs for conformal coating and G3 compliance

## Integrated Control and Safety

- Channel-level control and configuration with enhanced diagnostics
- Simplified safety implementation with ability to mix Safety and Standard I/O
- Safety Integrity Level at SIL 3, PLe, Cat. 4 single channel
- Supports high, low and continuous demand in Fail-safe applications
- Faster Safety reaction time

# 1719 Ex I/O



## Robust Design

- Intrinsically safe distributed I/O
- Can be mounted in Zone 2 or Class I, Div. 2
- Connects with field devices in Zones 0, 1 or Class I, Div. 1
- Compact, chassis-based I/O design with power supply module contained in the chassis
- Modular chassis options (8-, 22- and 24-slot) allow scalability for larger applications
- Add-in profile support in Studio 5000® v24 and above for easy configuration

## Network Capabilities

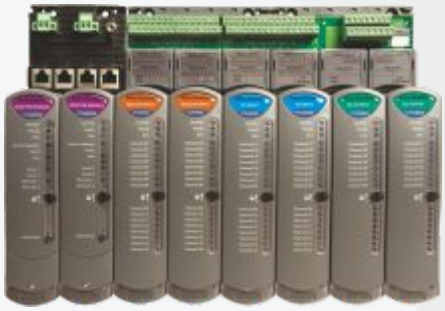
- EtherNet/IP™, dual Ethernet ports for Linear or Device Level Ring topologies

## Multi-discipline Capabilities

- Configurable analog input/output module offers flexibility with HART support as standard for all analog modules
- Eight channel digital NAMUR input module
- Two digital output modules provide support for nearly any solenoid requirement
- Includes power supply redundancy

## 1715 Redundant I/O

### High Availability



- Provides I/O redundancy for systems requiring high availability Supports fault tolerant capabilities without requiring additional hardware or software
- Offers device intelligence that can monitor their own health with internal diagnostics
- Alerts you to potential issues, including open and short circuits, unexpected rate-of-change and thresholds.

### Network Capabilities

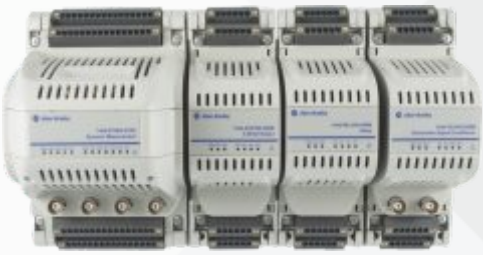
- Dual-port EtherNet/IP™ supports Device Level Ring topologies

### Multi-discipline Capabilities

- Suitable for simplex and duplex connections and for fault tolerant applications
- 4 to 20 mA inputs up to 16-channel connections
- 4 to 20 mA output supporting up to 8 field devices
- Digital input modules with up to 16-channel connections
- Digital output modules up to 8 isolated channels

## Dynamix™ Condition Monitoring

### System Flexibility



- Redundant, monitored power inputs increase system uptime
- Integrated BNC connectors for more reliable connectivity reducing system wiring costs
- Provides conformal coating, rated to +70 °C, and to Marine certification standards for shock and vibration

### Network Capabilities

- Dual Ethernet ports for both Linear and Device Level Ring topologies

### Multi-discipline Capabilities

- Expansion modules for system flexibility include:
  - 4-channel relay output modules
  - 4-channel 4 to 20 mA output module
  - 2-channel Tacho Signal Conditioning module

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