



**Rockwell
Automation**

ControlLogix® Controllers Product Portfolio

Integrated Architecture

A HIGH PERFORMANCE ARCHITECTURE

Smart. 

Automation system with intelligence that *just works*.

Productive. 

Simple integrated development resulting in improved real-time operations and expedited maintenance.

Secure. 

End-to-end security.

Controller portfolio



Micro control platform

Micro800™ controller

- Low acquisition cost
- Easy connectivity
- Simple programming tools
- Ideal for standalone machines



Standard machines

CompactLogix™ controller

- Multiple control disciplines
- Flexible and scalable
- Real-time information-enabled
- Standard, unmodified Ethernet
- One common integrated design environment
- Local and distributed I/O options



Complex machines & process

ControlLogix® controller



Process safety

AADvance/Trusted

- Scalable redundancy for fault tolerance
- Provides safety and availability requirements
- Distributed processing power



ControlLogix® controllers



ControlLogix® 5580 controller

- Integrated Motion on EtherNet/IP up to 256 axes
- 1 gigabit (Gb) embedded Ethernet port enables high-speed I/O and motion control for up to 300 nodes
- Conformal coat versions
- Removal insertion under power
- Enhanced security features



ControlLogix® 5570 Controller

- Integrated Motion on EtherNet/IP up to 100 axes
- Integrated safety up to SIL 3, PLe Cat. 4 versions
- On-Machine™ versions
- Conformal coat and extreme environment versions
- Redundancy and removal insertion under power



Multiple disciplines



Flexible and scalable



One common design environment

ControlLogix® 5580 controller



High performance

- 1 Gb Ethernet port supports Integrated Motion on EtherNet/IP
- Up to 45% increased memory capacity
- Integrated Motion on EtherNet/IP up to 256 axes



Enhanced productivity with Logix

- Onboard display allows for enhanced diagnostics and troubleshooting
- 2 GB Secure Digital (SD) card ships with the controller and provides nonvolatile memory and permanently stores user programs and tag data
- Controller task monitor now part of the embedded webpage
- Common control engine and one development environment for optimized productivity



Security capabilities

- Three-position keyswitch provides mode selection and added security
- Digitally signed and encrypted controller firmware
- Controller-based change detection and logging
- Role-based access control to routines and Add-On instructions
- Certified compliant with the IEC 62443-4-2 security standard



GuardLogix® 5580 controller

High-Performance CPU

- Optimized for faster safety reaction time

Scalable Safety Level

- SIL CL2, Up to PLd – Primary Controller
- SIL CL3, up to PLe – Primary Controller + Safety Partner

1-Gb Embedded Ethernet/IP Port

- Integrated Safety on EtherNet/IP, I/O and Safety Devices

IEC 61800-5-2 Safety Instructions

New drive safety Instructions with Kinetix® 5700 ERS4 drive

- Safe Feedback Scaling, Safe Stop 1, Safe Stop 2, Safe Operation Stop
- Safely-limited Speed, Safe Limited Position
- Safe Brake Control with external brake, Safe Direction

Increased Scalability

- 1756-L81ES: 3 MB standard memory / 1.5 MB safety memory; 100 Nodes
- 1756-L82ES: 5 MB standard memory / 2.5 MB safety memory; 175 Nodes
- 1756-L83ES: 10 MB standard memory / 5 MB safety memory; 250 Nodes
- 1756-L84ES: 20 MB standard memory / 6 MB safety memory 250 Nodes



ControlLogix® 5570 controller



Multiple disciplines

- Process, motion, discrete, and high availability applications can run on the same Logix control engine
- Common control engine and one development environment for optimized productivity
- Conformal coating offers added protection in harsh environments
- Integrated Motion on EtherNet/IP up to 100 axes
- Redundancy supports high availability requirements
- Removable terminal blocks allow Removal and Insertion Under Power (RIUP)



Enhanced productivity with Logix

- Onboard display allows for enhanced diagnostics and troubleshooting
- USB port for easy troubleshooting, programming and firmware updates
- Secure Digital (SD) card provides nonvolatile memory and permanently stores user programs and tag data



Security capabilities

- Three-position keyswitch provides mode selection and added security
- Digitally signed and encrypted controller firmware
- Controller-based change detection and logging
- Role-based access control to routines and Add-On Instructions



ControlLogix-XT™ 5570 controller



Multiple disciplines

- High-performance and multi-discipline control for extended protection in extreme environments -25...70 °C (-13...158 °F)
- Chassis available in 7- and 10 - slot configurations
- Conformal coating offers protection for harsh environments and operates in the same extreme temperatures as the controller
- Increased protection in ISA G3 environments
- Integrated Motion on EtherNet/IP up to 100 axes



Enhanced productivity with Logix

- Onboard display allows for enhanced diagnostics and troubleshooting
- USB port for easy troubleshooting, programming and firmware updates
- Secure Digital (SD) card provides nonvolatile memory and permanently stores user programs and tag data



Security capabilities

- Three-position keyswitch provides mode selection and added security
- Digitally signed and encrypted controller firmware
- Controller-based change detection and logging
- Role-based access control to routines and Add-On Instructions



GuardLogix® and GuardLogix-XT™ 5570 controllers



Multiple disciplines

- High-performance, safety control for extended protection in standard and extreme environments -25...70 °C (-13...158 °F)
- GuardLogix-XT™ controller provides increased protection in ISA G3 environments
- Conformal coating offers added protection in harsh environments
- Integrated Motion on EtherNet/IP up to 100 axes
- Integrated safety control up to SIL 3, PLe, in the same chassis as standard and XT controllers



Enhanced productivity with Logix

- Onboard display allows for enhanced diagnostics and troubleshooting
- USB port for easy troubleshooting, programming and firmware updates
- Secure Digital (SD) card provides nonvolatile memory and permanently stores user programs and tag data



Security capabilities

- Three-position keyswitch provides mode selection and added security
- Digitally signed and encrypted controller firmware
- Controller-based change detection and logging
- Role-based access control to routines and Add-On Instructions



Armor™ GuardLogix® and Armor™ ControlLogix® 5570 controllers



Multiple disciplines

- Standard/safety control on the machine; same functionality as ControlLogix® 5570 standard controller
- Ethernet ports support Star, Linear and Device Level Ring topologies
- Integrated safety up to SIL 3, PLe, **CAT4** in an IP67-rated housing for dust and wash-down protection in harsh environments
- Supports up to 100 axes of Integrated Motion over EtherNet/IP
- Marine certifications and cULus/ CE, RCM, KC and TÜV functional safety certification



Enhanced productivity with Logix

- Four onboard status displays allow for enhanced diagnostics and troubleshooting
- USB port for easy troubleshooting, programming and firmware updates
- Embedded 24V DC power with pass-through to power other On-Machine™ products



Security capabilities

- Digitally signed and encrypted controller firmware
- Controller-based Change Detection and logging
- Role-based access control to routines and Add-On Instructions





**Rockwell
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Thank you



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