

Extreme Environment System



Reduce costs and improve reliability with ControlLogix-XT and FLEX I/O-XT products

The Rockwell Automation extreme environment system, which includes control, communication and distributed I/O products, utilizes the Integrated Architecture Logix™ control engine with enhancements to meet the needs of extreme environment applications. This approach provides users with a complete control and information architecture, reducing integration and installation costs and providing users with the quality they have come to expect from Rockwell Automation. The extreme environment system protects your automation investment by sharing state-of-the-art, integrated control technologies across the architecture.



Designed for an extreme environment

Many end users and machine builders in extreme environment applications try to meet challenges by engineering their own solutions using standard products. A better alternative, however, is to invest in systems specifically designed for these environments as part of a complete control and information architecture that helps to improve product longevity while reducing integration and installation costs.

Rockwell Automation helps you lower overall installation and maintenance costs with its extreme environment system. Conformally coated, extreme environment products help to reduce panel costs and the need for additional heating/cooling equipment, resulting in lower installation and maintenance costs. With the added benefits of the Integrated Architecture™, this ControlNet-based¹ solution makes Rockwell Automation the partner of choice for extreme environment applications.

LISTEN.
THINK.
SOLVE.™

Designed to meet your application needs

The Rockwell Automation extreme environment system operates in a broader temperature spectrum, -20°C to 70°C. It is ANSI/ISA2, IEC and EMC-compliant, making it ideal for caustic or extreme environment applications.

As part of the Integrated Architecture, the extreme environment system uses the same programming

software, network protocol and information capabilities as the standard version, helping to reduce integration costs. The system's multidisciplinary control capabilities are critical for many applications, including oil & gas, wind turbine and ship-building.

¹ Initial XT systems are ControlNet-based; other networks to be added later.

² Refer to the Environmental Specification table below for detailed certification information.

System Components

Darker gray in color than standard Allen-Bradley products, the Rockwell Automation extreme environment system spaces modules in every other slot for thermal cushion/isolation and offers redesigned ventilation for increased air flow. We offer the following types of components:

ControlLogix-XT™ Products

- Controller, catalog number 1756-L63XT
- Redundancy Module, catalog number 1756-RMXT
- Communications, catalog numbers 1756-CN2RXT, -EN2TXT, -DNBXT, -DHRIOXT
- Power Supply, catalog number 1756-PBXT
- Chassis, catalog number 1756-A5XT, -A7LXT
- Slot filler, 1756-N2XT

Communications Network

- ODVA conformance-tested as CIP node on ControlNet to revision CT12

FLEX I/O-XT™ Products

- Digital I/O, catalog numbers 1794-IB16XT, -OB16PXT, -OB8EPXT, -IB10XOB6XT, -OW8XT
- Analog I/O, catalog numbers 1794-IE8XT, -IE4XOE2XT, -IF4IXT, -IF2XOF21XT, -OE4XT, -OF4IXT
- Specialty I/O, catalog numbers 1794-IRT8XT, -IJ2XT
- Communications, catalog number 1794-ACNR15XT, -AENTRXT
- Terminal bases¹ 1794-TB3, -TB3S, -TB3SK, -TB3G, -TB3GS, -TB3GSK, -TB3T, -TB3TK, -TB3TS, -TB3TSK-TBN¹, -TB3K, -TB3GK, -TB32, -TB32S, -TBNK

Environmental Specifications

The Rockwell Automation extreme environment system complies with the following environmental specifications:

Specification	Capability
• Temperature	• All XT modules are rated -25°C/20°C to 70°C. • System rated -20°C to 70°C, convection cooled (using 1756-A5XT) • System rated -20°C to 60°C, convection cooled (using 1756-A7LXT)
• Atmospheric protection - Conformally coated modules - ANSI/ISA	ANSI-ISA-S71.04-1985, Class G1, G2 and G3
• Vibration	• IEC 61131-2
• EMC	• IEC 61131-2
• Certifications	• cULus, Class 1, Div 2, C-Tick, CE, ATEX Zone 2, SIL 2

¹ When label is marked with T4A temperature code



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