

ControlLogix Power Supplies

ControlLogix power supplies are used with the 1756 chassis to provide 1.2V, 3.3V, 5V, and 24V DC power directly to the chassis backplane. Select from these configurations:

- Standard power supplies
- ControlLogix-XT power supplies
- Redundant power supplies

For detailed specifications, see the 1756 ControlLogix Power Supplies Specifications Technical Data, publication [1756-TD005](#).



Standard Power Supplies

You mount a standard power supply directly on the left end of the chassis, where it plugs directly into the backplane.

| Cat. No. | Description | Voltage Category | Operating Voltage Range | Chassis |
|-----------|--------------------------|------------------|-------------------------|----------------------------------|
| 1756-PA72 | Standard AC power supply | 120V/220V AC | 85...265V AC | Standard, series A, and series B |
| 1756-PA75 | | 120V/220V AC | 85...265V AC | Standard, series B |
| 1756-PB72 | Standard DC power supply | 24V DC | 18...32V DC | Standard, series A, and series B |
| 1756-PB75 | | 24V DC | 18...32V DC | Standard, series B |
| 1756-PC75 | | 48V DC | 30...60V DC | Standard, series B |
| 1756-PH75 | | 125V DC | 90...143V DC | Standard, series B |

ControlLogix-XT Power Supplies

The ControlLogix-XT power supplies support extreme temperature environments.

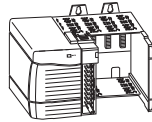
| Cat. No. | Description | Voltage Category | Operating Voltage Range | Chassis |
|-----------|---------------------------------|------------------|-------------------------|---------|
| 1756-PAXT | ControlLogix-XT AC power supply | 85...265V AC | 120/240V AC | XT |
| 1756-PBXT | ControlLogix-XT DC power supply | 24V DC | 18...32V DC | XT |

Select a ControlLogix System



Step 1 [ControlLogix I/O Modules](#)

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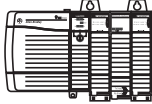
Select:

- I/O modules—Some modules have field-side diagnostics, electronic fusing, or individually isolated inputs/outputs
- A remote terminal block (RTB) or wiring system for each I/O module



Step 2 [ControlLogix Integrated Motion](#)

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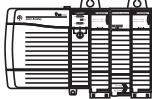
Select:

- An EtherNet/IP communication module for Integrated Motion
- Associated cables
- Select drives, motors, and accessories (use the Motion Analyzer software)



Step 3 [ControlLogix Communication Modules](#)

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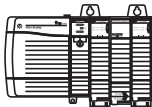
Select:

- Networks
- Communication modules
- Associated cables and network equipment
- Sufficient modules and cables if you are planning a redundant system



Step 4 [ControlLogix Controllers](#)

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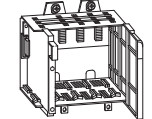


Select a controller:

- Standard ControlLogix controller
- Redundant ControlLogix controller
- Safety GuardLogix controller
- Extreme environment ControlLogix controller
- Standard Armor ControlLogix controller
- Safety Armor GuardLogix controller

Step 5 [ControlLogix Chassis](#)

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Select:

- A chassis with sufficient slots
- Slot fillers for empty slots

Step 6 [ControlLogix Power Supplies](#)

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Select:

- One power supply for each chassis, if you are using standard power supplies
- A power supply bundle if you are planning a redundant power supply system

Conformal Coating

A conformal coating solution is offered on select ControlLogix products. Conformal coating helps protect the assembly by providing a layer of protection against contaminants and humidity to extend product life in harsh, corrosive environments. Conformally coated products have a 'K' suffix at the end of the catalog number, such as 1756-A4K. Conformally coated, Allen-Bradley® products meet or exceed these requirements:

- ANSI/ISA 71.04.2013 G3 Environment (10-year exposure)
- IEC 61086-3-1 Class 2
- IPC-CC-830
- MIL-I-46058C
- EN600068-2-52 salt mist test, severity level 3

The most current list of conformally coated products can be found by contacting your local Rockwell Automation distributor, sales office, or at the following location:

<http://www.ab.com/en/epub/catalogs/12762/2181376/2416247/360807/ControlLogix-System.html>

ControlLogix-XT System

ControlLogix-XT™ (Extended Temperature) controllers function the same way as traditional ControlLogix controllers with an extended temperature range. The ControlLogix-XT products include control and communication system components that are conformally coated to extend product life in harsh, corrosive environments:

- The standard ControlLogix system can withstand temperature ranges from 0...60 °C (33...140 °F).
- When used independently, the ControlLogix-XT system can withstand temperature ranges from -25...70 °C (-13...158 °F).