



## MicroLogix Controllers

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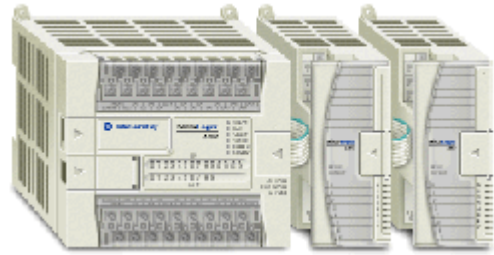
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## MicroLogix 1200 Controller

### High functionality in a cost-effective package.

The MicroLogix 1200 packaged controllers address the market trend for micro-PLCs with a small footprint and high functionality.



More powerful and flexible than ever, this family of small, cost-effective micro-controllers can expand up to 136 I/O. With the addition dc powered controllers that provide a 20 kHz PTO (Pulse Train Output) or PWM (Pulse Width Modulated) output for inexpensive stepper or servo motor control, six new discrete and analog I/O modules, and [six new features](#) with the MicroLogix 1200 series C controllers, you can use the MicroLogix 1200 family to solve more applications than ever before.

So if you're looking for a small, feature-rich, flexible and cost-effective control solution, the MicroLogix 1200 family of micro-controllers is your answer.

### Features and Benefits

- 24-I/O and 40-I/O
- High speed I/O: 20 kHz HSC, 20 kHz PTO/PWM output
- Expansion to 136 I/O for greater application flexibility
- Six new discrete and analog expansion I/O modules to solve even more applications
- Full ASCII (read/write) capability
- Large non-volatile 6K memory
- Several communication options to solve applications from peer-to-peer to device level to SCADA/RTU
- Real time clock and memory modules
- Compatibility with MicroLogix and SLC 500 instruction set and RSLogix 500 software

### Series C Enhancements

- Floating Point Data – provides large numbers from  $-3.4028 \times 10^{38}$  to  $+3.4028 \times 10^{38} \pm 1.17549 \times 10^{-38}$  for even more accurate data when using Compare, Math, Move, File, and Communication instructions.
- Programmable Limit Switch (PLS) function – lets you configure the High Speed Counter to operate as a programmable limit switch or rotary cam switch.
- Copy Word (CPW) instruction – copies words of data, in ascending order, from a source location to a destination location. The data can be the same type or different (i.e., Integer to Integer or Integer to Floating Point, etc.). Example: The Copy Word instruction can be used in ladder logic to allow an operator interface (like a PanelView) to adjust the controller's real time clock for day light savings time.
- Real Time Clock Adjust (RTA) instruction – synchronizes the controller's Real Time Clock with an external source (such as a timing beacon, etc.). The RTA instruction will adjust the RTC to the nearest minute.
- Gray Code (GCD) instruction – converts Gray code data to an integer value - no need to write conversion routines in ladder, thus saving programming memory.
- Absolute Value (ABS) instruction – takes the absolute value of the source and places it in the destination. The data range for this instruction is -2,147,483,648 to 2,147,483,647 or IEEE-754 floating point value.

**Important:** These enhancements are added to Series B or earlier controllers through a firmware upgrade. This upgrade is not required, except to access the new features. To use the new features, your controller's firmware and software should be at the following levels:

- MicroLogix 1200, Series C, Revision A, FRN 4  
[download firmware upgrade](#)
- RSLogix 500 version 5.00