

CONNECTED COMPONENTS WORKBENCH SOFTWARE

Simplify your standalone machine development with one integrated software



One software for controller **programming** and **simulation**, device **configuration** and **human machine interface design**



Integrated design software for your Micro Control System

Experience digital engineering and simplify standalone machine development for multiple industries with **Connected Components Workbench™ software and the built-in Micro800™ Simulator**. The intuitive design software from Rockwell Automation provides controller programming and simulation, device configuration and visualization with Human Machine Interface (HMI) editor. Available in both Standard and Developer editions, the software provides flexibility to switch the programming environment between the default IEC and Logix Themes.

Optimize productivity

- Reduce initial machine development time and cost with one software to configure multiple devices for standalone machines
- Ease connectivity to devices through various serial and network options
- Simplify programming with sample code, user-defined functions (UDFs) and user-defined function blocks (UDFBs)
- Shorten design time by scaling the controllers and applications with converter tool and copy/paste feature

Use an integrated design software PG 2 Develop smart machines faster and more efficiently PG 3 Minimize startup time PG 4 - PG 5 Get started PG 6

Develop smart machines faster and more efficiently

- Leverage the latest design technology that is optimized for compatibility with the Micro850° and Micro870° 2080-Lx0E controllers
- Ease configuration with more communication options through the user-friendly UI for DNP3* protocol connectivity, expanded DF1 protocol mode, legacy address mapping for Programmable Controller Communications Commands (PCCC) instructions, and Class 1 implicit messaging capability**
- Simplify integration with pre-defined tags for PowerFlex[®] 520 series and Kinetix[®] 5100 drives over EtherNet/IP[™]
- Speed development time with simplified configuration screens and workflow to support additional drives and generic profile devices
- Enhance user experience and efficiency through daylight saving function and bit level commenting support
- Streamline MicroLogix[™] to Micro870 L70E controller modernization with PCCC support and easy MicroLogix legacy address mapping

*Available with Micro870 controller catalogs 2080-L70E-24QBBN and 2080-L70E-24QWBN(K).

**Available with Micro850 and Micro870 2080-Lx0E controllers using Connected Components Workbench software version 21 or later.

See $\underline{\text{Micro850}}$ and $\underline{\text{Micro870}}$ controllers webpages for more information.

Scalability and reusability at-a-glance



Supports the following devices including safety

- Micro800 controllers
- PanelView[™] 800 graphic terminals
- PowerFlex 520 series drives
- Kinetix 5100 servo drives
- SMC[™] soft starters

- Guardmaster[®] 440C-CR30 software configurable safety relay
- Guardmaster speed monitoring safety relays
- GuardShield™ 450L light curtain
- E200[™] electronic overload relay

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Minimize startup time with Connected Components Workbench software

Program

- Program Micro800 controllers using Ladder Diagram (LD), Function Block Diagram (FBD) and Structured Text (ST) editors that support symbolic addressing
- Switch the programming environment between IEC and Logix Themes easily
- Simplify Pulse Train Output (PTO) axis programming with standard PLCopen[®] motion instructions



- Benefit through sample code from Rockwell Automation and partners via user-defined functions (UDFs) and user-defined function blocks (UDFBs)
- Reduce programming time with Filter and Quick Declaration features in the Global and Local Variable data grid
- Gain faster online edit experience with the refined Run Mode Change (RMC)
- Save engineering time with direct copy and paste from Studio 5000 Logix Designer[®] in Logix Theme environment
- Ease integration of PowerFlex 520 series and Kinetix 5100 drives to Micro800 controllers over EtherNet/IP with pre-defined tags available in Connected Components Workbench software version 21 or later
- Increase system security with the password set/verify and user project encryption/decryption in memory module
- Boost efficiency with enhanced Variable Selector through scope of variable and applying filters



Simulate

- Enable digital engineering and programming without hardware
- Evaluate, train and debug application code in a controlled environment using the Micro800 Simulator
- Boost productivity with remote communication validation by connecting EtherNet/IP devices to the Micro800 Simulator
- Change and monitor the value of the embedded I/O, plug-in I/O and Micro800 expansion I/O of the controller by implementing one of three virtual wiring methods
- Gain machine development efficiency with emulation of a Micro850 controller



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Minimize startup time with Connected Components Workbench software

Configure

- Leverage wizards to guide through the configuration of PowerFlex drives
- Connect to devices using USB, EtherNet/IP and serial communications
- Configure safety relays using built-in function blocks instead of wiring (Guardmaster 440C-CR30 software configurable safety relay)
- Update device firmware from Project Organizer without ControlFLASH™ software
- Improve predictive maintenance with PowerFlex T-Series drives interface
- Increase efficiency with print/export parameters and diagnostics
- Ease MicroLogix mapping with CSV file export and import



Visualize

- Elevate user experience with DesignStation when creating application for PanelView 800 graphic terminals
- Integrate PanelView 800 graphic terminal application development with Micro800 controller in a single project
- Save time by referencing Micro800 controller variables to HMI tags directly
- Map PanelView 800 tags to Micro800, CompactLogix 5370 (L5Xfile) and CompactLogix 5380 (5069-L306xxx) controllers using the import function
- Improve usability with enhanced animation capability using memory tags



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Hardware requirements

To use Connected Components Workbench software effectively, your computer must meet the following hardware requirements:

Minimum requirements	
Processor	Intel Core i5 Standard Power processor (i5-3xxx) or equivalent
RAM memory	8 GB
Hard disk space	20 GB free
Optical drive	DVD-ROM (only required if software is installed from DVD)
Pointing device	Any Microsoft Windows® compatible pointing device

Software requirements

The latest release supports the following operating systems, versions and service packs:

Supported operating system	
Windows Server 2012*	
Windows Server 2012 R2	
Windows Server 2016*	
Windows Server 2019	
Windows 10 IoT Enterprise 2016 LTSB 64-bit	
Windows 10 IoT Enterprise 2019 LTSC	
Windows 10	
Windows 11**	

All supported operating systems require .NET Framework 3.5 SP1 to be installed. * Requires Connected Components Workbench software version 20 or earlier.

** Requires Connected Components Workbench software version 20 or later.

How to **experience**

Schedule a virtual demonstration with your <u>local authorized</u> <u>distributor</u> or <u>Rockwell Automation</u> <u>sales representative</u> and experience digital engineering live.

Standard edition

Common, easy-to-use configuration and programming tool for a Rockwell Automation[®] Micro Control System. Includes a 10-minute runtime demo version of Micro800 Simulator.

Developer edition

Standard plus additional features including full version of Micro800 Simulator and Archive Manager, and extensive Micro800 controller programming capabilities for an optimized user experience.

How to obtain

Standard edition

• Free download through rok.auto/ccw

Developer edition

- Purchase an annual subscription, which is bundled with support through the <u>Software Subscription Portal</u>
- Or contact your <u>local distributor</u> or <u>Rockwell Automation sales representative</u> for pricing

Advance programming efficiency with our self-paced tutorials at <u>rok.auto/ccwvideos</u>

Set <u>quick tips</u> for Connected Components Workbench software

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