Unity™ Pro Software

The only programming tools needed for the entire range of Modicon® industrial PLCs

Make the most of your energy™
The Unity Pro development software is the only programming tool you need to fully develop, test, debug and manage your applications that leverage the current Modicon line of industrial controllers. Its versatility, ease-of-use and built-in library of pre-tested application function blocks allow users with multi-processor applications to share ideas and information visually, so individuals and teams can benefit from their collective experience and work together more effectively. As a result, you save time and money by reducing on-site development, installation times and debugging across your application’s entire lifecycle.
Five IEC 61131-3 languages to mix as you wish

Unity Pro offers five IEC 61131-3 languages as standard. Each section of code can be programmed in the language of your choice, adapted to each processing operation. All edit, debugging and operation tools are accessible whatever the language used.

- LD: ladder diagram
- IL: instructions list
- ST: structured text
- SFC: sequential function chart
- FBD: function block diagram
The Unity Pro software can cut your development costs and reduce downtime with:

- its built-in library of pre-tested application function blocks
- an easy-to-use graphical user interface
- improved platform collaboration
- advanced, intuitive diagnostics
- customizable user-developed function blocks that are reusable in other applications
- one software to control all your industrial PLCs
- advanced diagnostics simulator to help eliminate errors prior to installation

**Easy-to-use interface**

The Unity Pro software utilizes a graphical and context-sensitive Windows interface that gives you easy access to the tools, resources and information you need. Its customizable working environment maximizes user-friendliness and promotes re-utilization using:

- 100% graphics-based configuration
- Context-sensitive help and tool tips
- Customizable toolbar and icons
- User preferences
- Advanced drag/drop and zoom functions
- Integrated and synchronized editors for all design elements
- Data entry wizards, code syntax analyzer
- Integrated diagnostics window
- Hyperlinks
Development made easy

Greater flexibility using:
• High performance graphic editors that simplify programming
• Function blocks are available via drag-and-drop from the library
• User-defined blocks that can be created and added to the existing library to be shared by all users in any application
• Runtime screens and functional views in graphical format that give you direct access to various application elements

Improved performance using:
• A complete set of system and application debugging and diagnostics functions
• An integrated PLC simulator to test applications before installation begins
• A log of operator actions archived in a standard protected Windows file
• Immediate diagnostics with a display window that provides a clear display of all system and detected application errors in chronological order (date-stamped at source) make it easy to find the root cause of detected errors by tracing missing conditions back to the source

Easier collaboration using:
• A simple import/export function that enables all or part of the application to be exchanged with other project software (CAD, etc.) in the application’s source format, thanks to XML
• Planned converters for migrating existing applications as a function of the initial software platform (PL7, Concept IEC and 984LL)
• Runtime screens that make debugging easy with views representing the state of the variables in the form of graphic objects, such as indicators and trend charts
• The ability to access software resources via VBA, VB or C++ programming interfaces to automate repetitive tasks (data entry, configuration, translation, etc.) or to integrate specific applications (code generator, etc.)
• Data entry wizards and code-syntax analyzer
• Hyperlinks
• The current version of the Unity Pro software to edit and save applications in older versions
Every industry is unique in its own way, as is the Modicon family of products. Each offers something unique, such as embedded web browsers, hot standby or SIL3 certification. All programmed using the Unity Pro software, they make tailoring your solutions to meet your customer’s needs easy.

**Modicon Quantum™ PLC**
The Modicon Quantum PLC is the powerhouse of the Modicon family. It’s scalable, modular architecture is configurable to meet the needs of even the most critical solutions, from a single rack system to a plant wide architecture. It is ideally suited to industries that require continuous operation, rapid responsiveness and high availability through redundant, Hot Standby CPU. The Modicon Quantum achieves optimum cycle times, while integrating increased communication connectivity, diagnostics, memory flexibility and data storage.

**Modicon Premium™ PLC**
Delivering more flexibility and openness, the Modicon Premium PLC offers a highly versatile, cost-effective control solution. It enables you to standardize on a single platform for multiple discrete manufacturing and process control applications while at the same time, allowing you to take advantage of a flexible architecture that integrates multiple CPU levels, plug-and-play rack support and open communication standards. It also features multi-axis interpolated motion control, weigh scale monitoring, integrated Preventa™ safety relays and reflex functionality for fast, independent processing of critical input/output (I/O).

**Modicon M340™ PAC**
Extremely powerful, rugged and compact, the Modicon M340 programmable automation controller (PAC) provides cutting-edge features and high-end performance in a mid-range processor. Using commercial integrated circuit technology, the Modicon M340 utilizes modern data networking to interact with distributed I/O, drives, other PLC devices and enterprise-type entities.
When we introduced the first programmable controller, the Modicon PLC in 1968, we were responding to the needs of our customers for better, more effective machine control. This commitment has earned us a reputation for dependability, innovation and reliability that is the defining characteristic of Schneider Electric team members from around the world. This includes product specialists, industry experts, distributors, partners and the countless other members of the Schneider Electric family. Each is tasked with continuing our mission to help you become more efficient.

Whatever your need, Schneider Electric has the solution. Contact your local sales representative today to learn how Schneider Electric can improve operational performance and help your business achieve a competitive advantage.

## Unity Pro software selection guide

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<thead>
<tr>
<th>feature</th>
<th>Small (S)</th>
<th>Medium (M)</th>
<th>Large (L)</th>
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