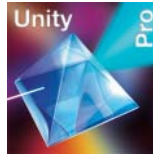


Modicon M340 automation platform

Unity software

Unity Pro programming software for:

- Modicon M340 **M**
- Premium P, Atrium **A**
- Quantum **Q**



IEC 61131-3 languages	Instruction List (IL)	M	M - A - P	M - A - P - Q	M - A - P - Q
	Ladder (LD)	M	M - A - P	M - A - P - Q	M - A - P - Q
	Structured Text (ST)	M	M - A - P	M - A - P - Q	M - A - P - Q
	Function Block Diagram (FBD)	M	M - A - P	M - A - P - Q	M - A - P - Q
	Sequential Function Chart (SFC)/Grafcet	M	M - A - P	M - A - P - Q	M - A - P - Q
Programming services	Multitask programming (Master, fast and event-triggered)	M	M - A - P	M - A - P - Q	M - A - P - Q
	Multitask programming (Master, fast, auxiliary and event-triggered)				P (TSX P57 5●) Q (140 CPU 651/671)
	Functional view and function modules	M	M - A - P	M - A - P - Q	M - A - P - Q
	DFB editor and DFB instances	M	M - A - P	M - A - P - Q	M - A - P - Q
	DDT compound data editor	M	M - A - P	M - A - P - Q	M - A - P - Q
	Data structure instances and tables	M	M - A - P	M - A - P - Q	M - A - P - Q
	EF function block libraries and EFB function blocks	M	M - A - P	M - A - P - Q	M - A - P - Q
	User-definable control loops		A (TSX PCI 2●) - P (TSX P57 2●)	A (TSX PCI 20●) - P (TSX P57 2●/3●/4●)	P (TSX P57 2●/3●/4●/5●)
	Programmable control loops (FB library)	M	M - A - P	M - A - P - Q	M - A - P - Q
	Motion Function Blocks	M	M - A - P	M - A - P	M - A - P
	Hot Standby PLC redundancy system		P (TSX H57 24M)	P (TSX H57 24/44M)	P (TSX H57 24/44M) - Q (140 CPU 67 160)
	System diagnostics	M	M - A - P	M - A - P - Q	M - A - P - Q
	Application diagnostics	M	M - A - P	M - A - P - Q	M - A - P - Q
	Diagnostics with location of error source	M	M - A - P	M - A - P - Q	M - A - P - Q
	Debugging and display services	PLC simulator	M	M - A - P	M - A - P - Q
Hypertext link animations in graphic languages		M	M - A - P	M - A - P - Q	M - A - P - Q
Step by step execution, breakpoint		M	M - A - P	M - A - P - Q	M - A - P - Q
Watchpoint		M	M - A - P	M - A - P - Q	M - A - P - Q
Operator screens		M	M - A - P	M - A - P - Q	M - A - P - Q
Diagnostic viewer		M	M - A - P	M - A - P - Q	M - A - P - Q
Other services	Creation of hyperlinks	M	M - A - P	M - A - P - Q	M - A - P - Q
	XML import/export	M	M - A - P	M - A - P - Q	M - A - P - Q
	Application converters (Concept, PL7)		M - A - P	M - A - P - Q	M - A - P - Q
	Utilities for updating PLC operating systems	M	M - A - P	M - A - P - Q	M - A - P - Q
	Communication drivers for Windows 2000/XP	M	M - A - P	M - A - P - Q	M - A - P - Q
	Unity Pro Servers - openness -				M - A - P - Q
					M - A - P - Q
UDE support OFS exchanges	Dynamic exchange with 3 rd party tools, OFS				M - A - P - Q
	Static exchange thru XML/XVM export files	M	M - A - P	M - A - P - Q	

Compatible Modicon platforms	Modicon M340 PLCs M	BMX P34 1000	BMX P34 1000	BMX P34 1000	BMX P34 1000
	Atrium slot-PLCs A	BMX P34 20●0	BMX P34 20●0	BMX P34 20●0	BMX P34 20●0
	Premium CPUs P	–	TSX PCI 204M	TSX PCI 204M TSX PCI 354M	TSX PCI 204M TSX PCI 354M
	Quantum CPUs Q	–	–	140 CPU 311 10 140 CPU 434 12U	140 CPU 311 10 140 CPU 434 12U 140 CPU 651 50/60 140 CPU 671 60
		–	TSX P57 C● 0244/0244M TSX P57 104/1634/154M TSX P57 204/2634/254M TSX H57 24M	TSX P57 C● 0244/0244M TSX P57 104/1634/154M TSX P57 204/2634/254M TSX P57 304/3634/354M TSX P57 4634/454M TSX H57 24/44M	TSX P57 C● 0244/0244M TSX P57 104/1634/154M TSX P57 204/2634/254M TSX P57 304/3634/354M TSX P57 4634/454M TSX P57 5634/554M TSX H57 24/44M

Software name	Unity Pro Small	Unity Pro Medium	Unity Pro Large	Unity Pro Extra Large
Unity Pro software type	UNY SPU SF● CD30	UNY SPU MF● CD30	UNY SPU LF● CD30	UNY SPU EF● CD30
Pages	43120/25			

EF/EFB function development software in C language	Software for firmware and application loading	Software for designing and generating batch/process applications	SFC View application diagnostic and monitoring software	Pack for developing specific solutions
				
<p>Enhancement of EF and EFB function block libraries:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Creation of families <input type="checkbox"/> Development of functions in C language <input type="checkbox"/> Access to all data and variable types <input type="checkbox"/> Debugging functions (step by step, breakpoint) <input type="checkbox"/> Use of functions created in all languages <p>Supplied with:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Microsoft Visual C++ <input type="checkbox"/> GNU source code and compiler 	<p>Simple and easy to use software to upgrade a Modicon M340 PLC when the user doesn't need to display/modify the program.</p> <p>Upload/download:</p> <ul style="list-style-type: none"> <input type="checkbox"/> CPU and Ethernet module firmware <input type="checkbox"/> PLC project, including: <ul style="list-style-type: none"> - Program - Located and unlocated data - User files and user web pages 	<p>UAG specialist software for designing and generating batch/process applications in a "Collaborative Automation" environment. It provides the unique project database:</p> <ul style="list-style-type: none"> <input type="checkbox"/> process and control (PLCs) <input type="checkbox"/> HMI user interface (Magellis) <input type="checkbox"/> SCADA supervision (Monitor Pro V7.2) <p>Based around re-usable objects (PID, valves, etc) and complying with standard ISA S88, UAG generates the PLC code and the elements required for the HMI system. Complies with the GAMP standard (<i>Good Automation Manufacturing Practice</i>)</p>	<p>ActiveX control component for monitoring and diagnostics of chart status (SFC or Grafcet) in sequential applications:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Overview of charts and detailed views <input type="checkbox"/> Can be integrated in human/machine interface (HMI) applications <input type="checkbox"/> Access to PLC data via OFS (<i>OPC Factory Server</i>) <p>Includes EFB function block library for Unity Pro (for Premium, Atrium and Quantum CPUs)</p>	<p>Specialist software for developing made-to-order solutions (for example interfaces with an electrical CAD system, automatic application generator, etc):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Access to Unity Pro object servers <input type="checkbox"/> Reserved for IT development engineers using Visual Basic or C++
<p>Compatible with:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unity Pro Small, Medium, Large and Extra Large <input type="checkbox"/> All Modicon M340 PLCs <input type="checkbox"/> All Atrium slot-PLCs <input type="checkbox"/> All Premium Unity CPUs <input type="checkbox"/> All Quantum Unity CPUs 	<p>Compatible with:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unity Pro Small, Medium, Large and Extra Large <input type="checkbox"/> All Modicon M340 PLCs 	<p>Compatible with:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unity Pro Extra Large <input type="checkbox"/> TSX P57 4634/454M and TSX P57 5634/554M Premium Unity CPUs <input type="checkbox"/> All Quantum Unity CPUs 	<p>Compatible with:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unity Pro Extra Large <input type="checkbox"/> All Modicon M340 PLCs <input type="checkbox"/> All Atrium slot-PLCs <input type="checkbox"/> All Premium Unity CPUs <input type="checkbox"/> All Quantum Unity CPUs 	<p>Compatible with:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unity Pro Extra Large <input type="checkbox"/> All Modicon M340 PLCs <input type="checkbox"/> All Atrium slot-PLCs <input type="checkbox"/> All Premium Unity CPUs <input type="checkbox"/> All Quantum Unity CPUs
<p>Unity EFB Toolkit</p>	<p>Unity Loader</p>	<p>Unity Application Generator</p>	<p>Unity SFC View</p>	<p>Unity Developer's Edition</p>
<p>UNY SPU ZFU CD30E</p>	<p>UNY SMU ZU CD30</p>	<p>UNY SEW LF● CD23</p>	<p>UNY SDU MF● CD20</p>	<p>UNY UDE VFU CD21E</p>
<p>43120/25</p>	<p>48351/2</p>	<p>43123/7</p>	<p>43125/5</p>	<p>43120/24</p>