

Modicon Quantum automation platform

New features in Unity Quantum



140 CPU 651 ●●

New CPUs

With Unity, the range has been complemented by new, faster CPUs with additional memory extension capability.

Extension of the range

- New high-performance 140 CPU 651 50 and 140 CPU 651 60 processors
- New entry level 140 CPU 311 10 processor
- High-performance 140 CPU 671 60 processor dedicated to Hot Standby redundant applications

Optimum execution speed

- Entry level 140 CPU 311 10 processor, 4 times faster than Concept (140 CPU11302)
- New CPU architecture with:
 - "Intel inside" Pentium dual processor structure
 - High-performance multitask structure
- Optimum performance with 140 CPU 651/671 ●● processors:
 - 52 ns for a Boolean instruction
 - 45 ns for a numerical instruction

Memory enhancements

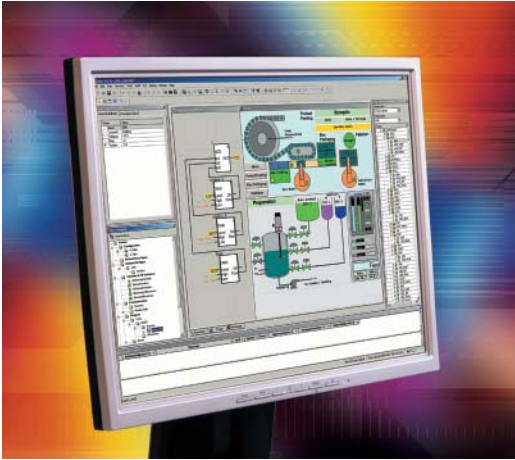
- Program memory extension up to 7 Mb per PCMCIA card
- File storage on PCMCIA card
- Customizable program download to the PLC (with or without source code, binary, symbols, etc).

Communication enhancements

- USB programming port on high-end CPUs
- Integrated Ethernet port with active Web server and automatic E-mail transmission on event
- Enhanced Ethernet performance
- New Profibus DP V1 fieldbus partner module

High performance Hot Standby solution

- Plug and Play configuration
- Excellent switching performance (speed and application size)
- Keypad/display for diagnostics and control



New software

Unity Pro, a seamless continuation of Concept

Unity Pro has been designed primarily to ensure continuity with Concept in order to cut training costs to a minimum. In addition, the Concept IEC application converter is included as standard in Unity Pro.

ProWORX 32 remains the “easy to use” software chosen as the reference software for Modicon LL984 language.

Unity Pro boosts software productivity by means of

- Development made easier by:
 - a graphic hardware configuration
 - use of all editors in parallel while maintaining consistency of data
 - Increased quality during testing and startup phases with the addition of new dedicated tools
- Reduction in machine downtimes during use:
 - direct access to the functional view and the function modules
 - runtime screens
 - integrated application diagnostics with tracking of operator actions
- Simplified integration of third-party tools:
 - hyperlinks to any level of the project
 - XML import/export on any project element
 - access to the Unity Pro database and server

Advanced Unity Pro specialist software

- Unity Studio has the task of structuring distributed applications where several applications and devices communicate with one another via Ethernet. Unity Studio is particularly suitable for the needs of the manufacturing industry and of infrastructure.
- Unity Application Generator (UAG) is specialist software for developing and generating process control applications. Unity Application Generator is particularly suitable for the needs of continuous control in batch/process industries.
- Unity Developer's Edition (UDE) is specialist software providing static or dynamic access to all Unity servers based on development in VBA, VB or C++.
- Unity EFB Toolkit is specialist software for development in C language of tailor-made functions destined for integration in Unity Pro function libraries.
- Unity SFC View is an Active X component designed for monitoring and diagnostics of SFC sequential applications from an HMI station.