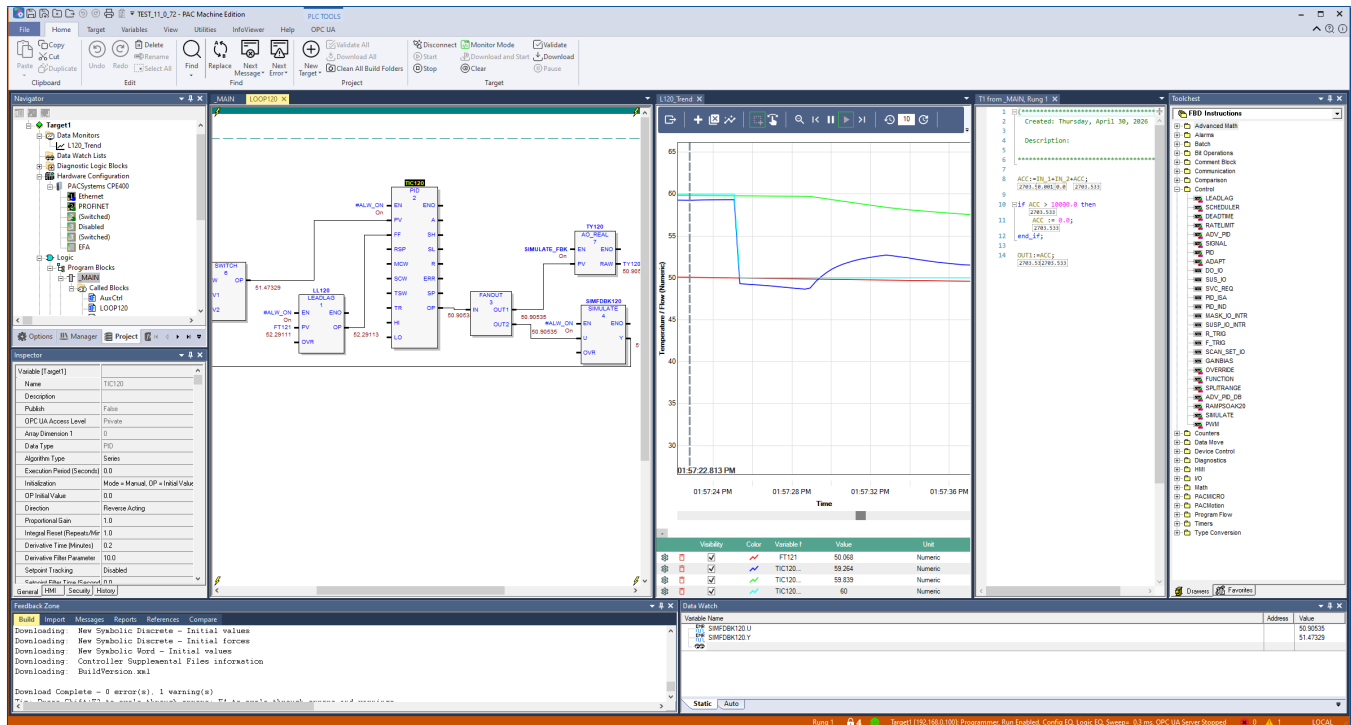


PAC Machine Edition 11

Integrated Software for PACSystems™ Devices



Introduction

PAC Machine Edition (PME) is an integrated development environment for configuring, programming, and maintaining industrial control applications. The platform includes a comprehensive set of tools for developing and managing a wide range of automation devices, including programmable automation controllers (PAC), QuickPanel+™ and QuickPanel+2 operator interfaces, variable frequency drives, servo systems, and I/O devices.

Beyond development, PME includes built-in tools for real-time monitoring, troubleshooting, and lifecycle management, enabling faster issue resolution and more efficient system support. The result is a more flexible, scalable automation platform that allows users to standardize diverse application with a single toolchain.

Benefits

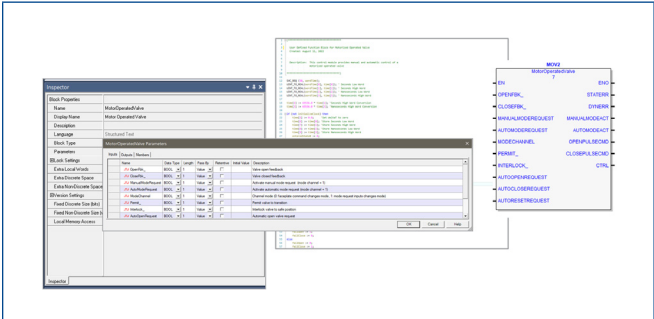
Flexible Integrated Environment

Machine Edition provides a flexible, integrated environment that allows users to dock or float windows containing the tools and information needed to accomplish the task at hand—whether developing complex logic or diagnosing machine faults. The IDE layout is fully configurable, enabling users to include as many or as few windows as required. It adapts seamlessly to each phase of an automation project, supporting everything from application development and commissioning to ongoing operation.

Troubleshoot Across Multiple Targets

PAC Machine Edition enables users to open multiple projects at the same time, each in its own application instance. By connecting each instance to a different target, users can work with multiple targets concurrently from a single PC.

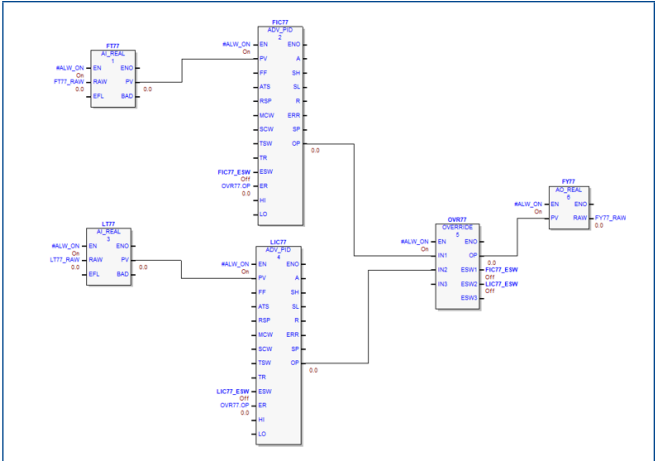
Boost Productivity Through Reusable Blocks



Machine Edition allows users to build user-defined function blocks and user-defined types that can be stored in the Toolchest and used across all projects. This reusability standardizes logic and boosts productivity to create applications effectively.

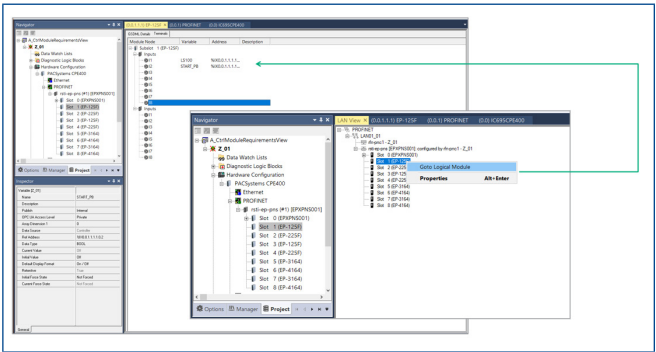
Extensive Function Block Library

Machine Edition offers an extensive set of advanced function blocks that go well beyond the standard instructions found in most IEC 61131-3 programming tools. These blocks enable users to build robust control strategies for ratio, feedforward, override, cascade, and split range control—capabilities all centered around the ADV_PID and PID function blocks.



PROFINET I/O Configuration

Machine Edition significantly reduces the complexity traditionally associated with PROFINET network configuration. Rather than forcing engineers to use multiple software tools, PME provides a single engineering environment where controllers, PROFINET networks, remote I/O, drives, and third-party devices can all be configured, commissioned, and maintained together.



Simplified DeltaV Integration Using Module Type Packages

Modularization is important to facilitate flexible manufacturing and to accelerate the construction and planning of plants. PME enables modular automation by providing a library of data objects that semantically define the data to be exchanged between process equipment assemblies controlled by a PACSystems controller and a Process Orchestration Layer (POL) per the VDI/VDE/NAMUR 2658 specification.

The POL coordinates the plant level control by issuing commands and receiving state information from the process equipment assemblies.

PME can export the definition of data objects used by a single controller as a Module Type Package (MTP) that can be imported into a POL such as Emerson's DeltaV DCS.

Logic Simulation

Machine Edition includes a simulator that supports hardware-independent execution of logic for PACSystems controller targets. Machine Edition automatically selects the correct simulator runtime according to the CPU model defined in the PME project.

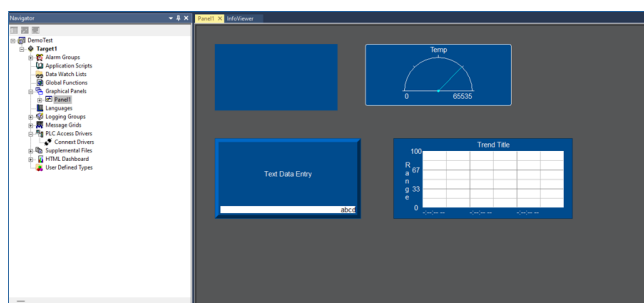
Multiple Programming Languages

PME supports IEC 61131-3 editors for programming controller targets, including ladder logic, structured text, and function block diagrams. You can also create C blocks and seamlessly integrate them into PME, giving you the flexibility to choose the most effective language for your application.

Sequence function blocks extend this capability by bringing the advantages of sequential function charts directly into the function block diagram environment. This allows equipment control and its associated sequencing to be managed within a single, unified editor.

Shared Database Between View and Logic Developer

In addition to sharing common development tools, all PAC Machine Edition components — View and Logic Developer — share a common database and common objects across applications. This means logic, scripts, and HMI panels all share a common data model that doesn't require duplicating configuration in multiple spots.



Product Description

Machine Edition offers four different development suite packages, enabling users to select the one that best fits their specific hardware platforms and application requirements. The Development Suite options and their associated features are summarized in the table below.

Development Suite			ProPlus	Professional	Lite	QuickPanel Series
Features	Targets	PACSystems RX3i and RX7i	✓	✓	—	—
		PACSystems RSTi-EP	✓	✓	✓	—
		Series 90-30 and 90-70	✓	✓	—	—
		QuickPanel+ / QuickPanel+2	✓	✓	✓	✓
		VersaMax PLC	✓	✓	✓	
		Remote IO	✓	✓	✓	✓
	Capabilities	View Runtime	✓	✓		
		View Development	✓	✓	✓	✓
		PC Control Runtime	✓	✓		
		PC Control Development	✓	✓	✓	✓
		View OPC Driver	Optional	Optional	—	—
		Interface for 3rd Party Software	✓	—	—	—
		PACSystems Simulator	✓	✓	—	—
		Module Type Packages	✓	—	—	—
		PACSystems Safety Controller SIL2	✓	✓	—	—
		View and PC Control Points	700 1500 (O) 8000 (O) 35000 (O) Unlimited	700 1500 (O) 8000 (O) 35000 (O)	None	None
Part Number			ME110MBPP001 ME110MBPP159 ME110MBPP000 ME110MBPP350 ME110MBPP999	ME110MBP001 ME110MBP159 ME110MBP000 ME110MBP350	ME110MBL	ME110CCEMK

If the View OPC Driver is added as an option to either Professional or ProPlus then "-O" is appended to the part number. Professional and ProPlus come with 700 points. There is an option to increase the number of points beyond 700.

Programming and Maintaining Controller Targets

The following controller targets are configured and maintained using Machine Edition:

- PACSystems RXi
- PACSystems RX7i
- PACSystems RX3i
- PACSystems RSTi-EP
- PACSystems VersaSafe
- Series 90 PLCs
- VersaMax PLCs

Programming and Maintaining Operator Interface Targets

The following operator interface targets are configured and maintained using Machine Edition:

- QuickPanel+
- QuickPanel+2

All Machine Edition development suites support the configuration and programming of **QuickPanel+** and **QuickPanel+2** operator interface panels, enabling users to develop and maintain HMI applications within the same integrated engineering environment.

The **QuickPanel Series Development Suite** is designed specifically for users whose primary requirement is HMI development. It provides the tools needed to create, configure, and maintain QuickPanel operator interface applications without the additional controller programming capabilities included in the broader Machine Edition development suites. This makes it a cost-effective and streamlined option for projects focused exclusively on operator interface development.

Configuring Remote I/O Targets

The following Remote I/O targets are configured and maintained using Machine Edition:

- Series 90-30 Ethernet
- Series 90-70 Genius
- PACSystems RX3i Ethernet
- VersaMax Ethernet
- VersaMax Genius
- VersaMax Profibus
- VersaMax SafetyNet

All development suites support remote I/O configuration.

License Types

When ordering Machine Edition 11, one of the following license types must be selected: Leased Key, Computer Locked Key, or Hardware Key (M7). Each option is designed to support different deployment and license management requirements.

Leased Key

A Leased Key is activated and managed through a license server. The server maintains a pool of available licenses that can be leased by Machine Edition clients.

The license server can be installed on either a physical or virtual machine. Similarly, Machine Edition clients may run on physical or virtual machines and obtain a license from the server.

This licensing model simplifies administration, improves license utilization, and enables efficient sharing of licenses across multiple users, workstations, and virtual environments.

Computer Locked Key

A Computer Locked Key is permanently tied to a specific physical computer. Once activated, the license can only be used by Machine Edition running on that designated computer.

This option is well suited for dedicated engineering workstations where license mobility is not required, and centralized license management is unnecessary.

Hardware Key (M7)

A Hardware Key (M7) is a portable USB licensing device that authorizes Machine Edition when connected to a computer.

Machine Edition 11 supports M7 hardware keys, allowing users to move their license between systems simply by transferring the key. The M7 key can license Machine Edition running directly on the host computer as well as Machine Edition instances hosted on virtual machines associated with that host.

This option provides maximum portability and is ideal for users who require access to Machine Edition from multiple engineering workstations.

System Requirements

For detailed system requirements, see GFK-3245M.

Operating System

- Windows 11 Pro, Enterprise, and IoT
- Windows 10 Pro, Enterprise, and IoT
- Windows Server 2025, 2022, and 2019
- Windows Server 2016 is supported for all Machine Edition features except PACSystems Simulator

Recommended Physical Machine

- Processor: 2.0 – 4.0 GHz
- Memory: 16 GB RAM or greater
- Storage: 32 GB or greater

Recommended Virtual Machine

- Platform: VMware Player or Workstation (Type 2) or VMware ESXi (Type 1)
- vCPU: 2/4
- Memory: 8 GB or greater
- Storage: 32 GB

Primary Support

Primary Support is a service designed to optimize the reliability and performance of PAC Software. It provides customers with access to the Emerson Customer Center website, the latest software releases, and access to experts to troubleshoot and address issues with Machine Edition.

Ordering Information

To order Machine Edition, both a product part number and a key type must be specified. The table below lists the available Machine Edition product offerings and their corresponding part numbers. For each part number, customers must select one of the following key types: Leased Key, Computer Locked Key, or Hardware Key (M7).

Part Number	Description
ME110CSCEMK	Machine Edition v11 QuickPanel+ / QuickPanel+2 Development Suite
ME110MBL001	Machine Edition v11 Lite Developer Suite
ME110MBP001	Machine Edition v11 Professional Development Suite 700 Points
ME110MBP159	Machine Edition v11 Professional Development Suite 1500 Points
ME110MBP000	Machine Edition v11 Professional Development Suite 8000 Points
ME110MBP350	Machine Edition v11 Professional Development Suite 35000 Points
ME110MBP001-O	Machine Edition v11 Professional Development Suite 700 Points View OPC Driver
ME110MBP159-O	Machine Edition v11 Professional Development Suite 1500 Points View OPC Driver
ME110MBP000-O	Machine Edition v11 Professional Development Suite 8000 Points View OPC Driver
ME110MBP350-O	Machine Edition v11 Professional Development Suite 35000 Points View OPC Driver
ME110MBPP001	Machine Edition v11 Professional Plus Development Suite 700 Points
ME110MBPP159	Machine Edition v11 Professional Plus Development Suite 1500 Points
ME110MBPP000	Machine Edition v11 Professional Plus Development Suite 8000 Points
ME110MBPP350	Machine Edition v11 Professional Plus Development Suite 35000 Points
ME110MBPP999	Machine Edition v11 Professional Plus Development Suite Unlimited Points
ME110MBPP001-O	Machine Edition v11 Professional Plus Development Suite 700 Points View OPC Driver
ME110MBPP159-O	Machine Edition v11 Professional Plus Development Suite 1500 Points View OPC Driver
ME110MBPP000-O	Machine Edition v11 Professional Plus Development Suite 8000 Points View OPC Driver
ME110MBPP350-O	Machine Edition v11 Professional Plus Development Suite 35000 Points View OPC Driver
ME110MBPP999-O	Machine Edition v11 Professional Plus Development Suite Unlimited Points View OPC Driver
PRIMARYSUPPORTNEW	Primary Standard Support New

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