



Siemens offers the right controller for a wide range of automation requirements. The SIMATIC range of controllers comprises Basic, Advanced, Distributed and Software Controllers that offer impressive scalability and integration of their functions. Every controller offers integrated system functions such as efficient engineering, high performance, innovative design, reliable diagnostics, Safety Integrated, Technology Integrated, and Security

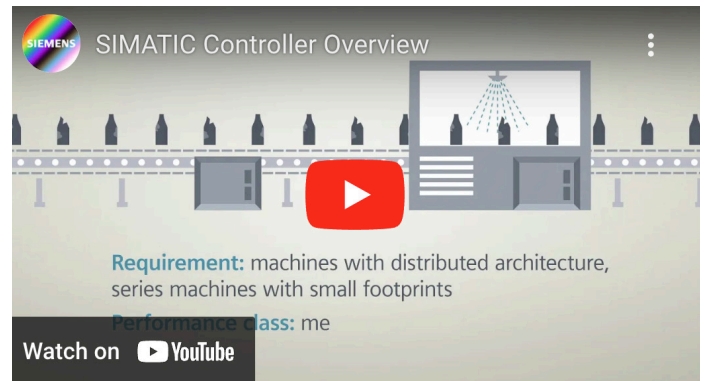
Integrated. This allows great flexibility in the design or adaptation of automation solutions, without having to constantly accumulate more knowledge and expertise.

The Steiner Automation Team application engineers can help you select the right controllers to meet your requirements and provide guidance on how to improve operational efficiencies through integration.

## SIMATIC Controllers by Comparison

Every machine or plant is different in terms of system performance needs and complexity. The SIMATIC S7-1200 Basic Controller for small to medium-sized applications, the SIMATIC S7-1500 Advanced Controller for medium-sized and complex applications, the SIMATIC ET 200 Distributed Controller for distributed applications, and the SIMATIC S7-1500 Software Controller for PC-based applications.

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## Basic Controllers | SIMATIC S7-1200

With the latest software release of TIA Portal V18, combined with firmware version 4.6, brings notable advancements, including an increase in PLC memory. This upgrade empowers automation solutions in the low and middle performance range with enhanced capacity to handle more complex tasks. Therefore, basic controllers stand out as the intelligent choice, offering integrated communication and technology functions for compact automation solutions. They are available in both standard and failsafe versions.

[View S7-1200 Basic Controllers](#)

[View CPU V4.6 Performance Chart](#)

## Advanced Controllers | S7-1500

The advanced controllers of the SIMATIC S7-1500 generation offer unparalleled performance, flexibility, and networking capabilities. With the release of Siemens TIA Portal V18 software and firmware version 3.0, new hardware for CPUs up to S7-1516 is introduced. This hardware upgrade, which includes a transition from single-core to dual-core processors, significantly enhances the performance, memory, and communication capabilities of these CPUs. It ensures optimal system performance and future-proofs your automation solutions.



[View S7-1500 Advanced Controllers](#)

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## Distributed Controllers | ET-200SP

Distributed Controllers are used for machines with a distributed architecture and for series machines with limited space available. They combine the advantages of a SIMATIC S7-1500 with the design of a SIMATIC ET 200SP. With SIMATIC ET 200pro, a CPU module with S7-1500 technology is available as a modular space-saving solution for tough environmental conditions near the machine. With the release of Siemens TIA Portal V18 software and firmware version 3.0, new hardware for CPUs up to S7-1514-SP is introduced. This hardware upgrade, which includes a transition from single-core to dual-core processors, significantly enhances the performance, memory, and communication capabilities of these CPUs.

[View ET-200 Distributed Controllers](#)

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## Software Controllers

The Software Controllers are used wherever maximum precision and speed are required as well as PC-based automation. With SIMATIC S7-1500 software controller you have access to the full performance of a SIMATIC S7-1500 controller on industrial PCs. This means you benefit from the security of a PLC controller and from the flexibility and independence of an industrial PC. The software controller works completely independent of the operating system, which means it also continues to run during restart or even when the operating system fails.



[View Software Controllers](#)

For more info about **Siemens SIMATIC Controllers** call **1-800-STEINER** (783-4637) to speak with a Steiner automation application engineer.

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