SIMATIC Controllers

The innovative solution for all automation tasks

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Siemens AG

Industry Sector

Industrial Automation Systems
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You need optimal solutions for every application area to enable you to automate your machines and plants economically and flexibly. Whether you want open-loop control, or you also want to cover other additional automation applications such as visualization, technology or data archiving – we always have the right solution for you! And with a unique level of integration in engineering, communications and diagnostics.

Our SIMATIC Controllers are based on different hardware and software architectures:

**SIMATIC Modular Controllers**
- Ready to use
- Long-term compatibility and availability
- For use in harsh environments
- Modular expansion and scalability
- Maintenance-free

**SIMATIC PC-based Controllers**
- Flexible in use
- Openness in hardware and software configuration
- Use of existing PC resources
- Participation in the continuous PC innovation process
- Multifunctional
- Customized PC variants
- Embedded bundles:
  - Ready to use
  - Rugged
  - Maintenance-free

**Fields of application**
- Controlling with centralized and distributed I/O
- Fault-tolerant control
- Fail-safe control
- Technological tasks
- Data acquisition and archiving
- Integration of C/C++/C# programs
- Fail-safe control
You need optimal solutions for every application area to enable you to automate your machines and plants economically and flexibly. Whether you want open-loop control, or you also want to cover other additional automation applications such as visualization, technology or data archiving – we always have the right solution for you! And with a unique level of integration in engineering, communications and diagnostics.

Your benefits:
- Ready to use
- Long-term compatibility and availability
- Modular expansion and scalability
- Shock-resistant
- Maintenance-free

Fields of application:
- Controlling with centralized and distributed I/O
- Fault-tolerant control
- Fail-safe control

Our SIMATIC Controllers are based on different hardware and software architectures:

SIMATIC Modular Controllers
The Modular Controllers have been optimized for control tasks and specially designed for ruggedness and long-term availability. They can be flexibly expanded at any time using plug-in I/O modules, function modules, and communication modules. Depending on the size of the application, the right controller can be selected from a wide range according to performance, quantity frameworks, and communication interfaces. The modular controllers can also be used as fault-tolerant or fail-safe systems.

SIMATIC PC-based Controllers
SIMATIC PC-based Controllers use the real-time capable software controller WinAC RTX or its fail-safe variant WinAC RTX F on the basis of Windows operating systems. Any PC applications, operator control and monitoring tasks, as well as technological functions can simply be combined here to form an overall automation solution. The SIMATIC PC-based bundles, with their highly rugged design and pre-installed, ready-to-use automation software, allow the advantages of PC-based Automation to be implemented at the machine.

Your benefits:
- Flexible in use
- Openness in hardware and software configuration
- Use of existing PC resources
- Participation in the continuous PC innovation process
- Multifunctional
- Customized PC variants

Fields of application:
- Control, operator control and monitoring
- Technological tasks
- Data acquisition and archiving
- Integration of C/C++/C# programs
- Data exchange via OPC
- Fail-safe control

SIMATIC PC-based Controllers
Totally Integrated Automation

Totally Integrated Automation stands for Industrial Automation from Siemens and encompasses the entire production process. The open system structure incorporates hardware and software sharing the same properties: Consistent data management, worldwide standards, and uniform interfaces. The resulting responsiveness increases efficiency and productivity. SIMATIC Controllers are an essential component of Totally Integrated Automation.

The extensive range of products makes it possible to find the right solutions for the most diverse application areas – in cost-sensitive standard production as well as in plant building and special mechanical equipment manufacture, where reduction of the engineering and startup costs plays a crucial role.
## SIMATIC Modular Controllers

### 57-500
- Compact CPUs
- 1.5 to 15 kW
- 1000 GB
- 10 years warranty
- IP 54/55
- 100 MS sampling rate
- 15 year backup
- MultiPanel HMI
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-500
- Compact CPUs
- 3.5 to 40 kW
- 3000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-1500
- Standard CPUs
- 2.5 to 60 kW
- 4000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-1500
- Standard CPUs
- 5.5 to 75 kW
- 6000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-4000
- Standard CPUs
- 16 to 260 kW
- 20000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-4000
- Standard CPUs
- 25 to 410 kW
- 40000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-7500
- Standard CPUs
- 40 to 630 kW
- 300000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-7500
- Standard CPUs
- 50 to 810 kW
- 400000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-11000
- Standard CPUs
- 90 to 1400 kW
- 1000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-11000
- Standard CPUs
- 120 to 1500 kW
- 1500000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-16000
- Standard CPUs
- 200 to 3600 kW
- 2000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-16000
- Standard CPUs
- 300 to 4800 kW
- 3000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-20000
- Standard CPUs
- 400 to 8900 kW
- 5000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-20000
- Standard CPUs
- 600 to 13800 kW
- 7000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-25000
- Standard CPUs
- 700 to 16500 kW
- 10000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-25000
- Standard CPUs
- 900 to 22500 kW
- 15000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 57-30000
- Standard CPUs
- 900 to 30000 kW
- 20000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### 59-30000
- Standard CPUs
- 1200 to 45000 kW
- 30000000 GB
- 10 years warranty
- IP 54/55
- 1000 MS sampling rate
- 20 year backup
- Panel PC
- Performance ranges
- 3 fail-safe CPUs
- 10 standard CPUs
- 7 compact CPUs
- 2 fail-safe CPUs

### Product range
- 5 compact CPUs
- 3 standard CPUs

### DRAFT März 26, 2013

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### SIMATIC Controllers

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<td>• Configuration of integral HMI functions</td>
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<td>WinCC flexible Standard, Advanced WinCC flexible, WinCC RT Advanced</td>
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**SIMATIC Controllers**

- **Engineered with PC standard hardware**
- **Special technology controllers**
- **Special modules, plugged in centrally**
- **Basic functions integrated in CPU**
- **Fail-safety available soon**
- **Loadable function blocks**

**HMI functions**

- **Configuration changes during operation (CiR)**

**AS-Interface**

- **I/O modules on PROFIBUS**
- **I/O integrated in CPU**

**Temperature range**

- -20 … 60 °C (1) 0 … 60 °C (2) 0 … 55 °C (3) 0 … 60 °C (3) PC-dependent

**I/O address area, max.**

- 1024 / 1024 bytes
- 2048 / 2048 bytes
- 8192 / 8192 bytes
- 16384 / 16384 bytes

**Product range**

- Modular, compact controller for discrete and process automation in the low to mid-range of performance

**Version V12 in the TIA Portal**

- (character-based serial comm.)

**Software controller and HMI**

- 0.004 µs (Intel CoreDuo 1.2 GHz)
- 0.004 µs (Intel Core2Solo 1.2 GHz)

**Third party software controller for Windows Embedded Standard, Windows 7)**

- (via ODK, OPC)

**Embedded rail-mounted PC (fanless, diskless)**

- With degree of protection IP65/67
- (via CP)

**IPC227D bundles**

- Embedded Controller in S7-300 design

**Web server**

- Others integrated

- PROFIBUS, Industrial Ethernet, USB, RS232

**WINAC RTX 2010**

- Pre-installed operating system
- 3 software versions

**Digital versatile drive**

- 2 fail-safe CPUs
- 2 technology CPUs
- 7 compact CPUs
- 7 standard CPUs

**WinAC RTX**

- Pre-installed operating system
- 2 fail-safe CPUs
- 3 standard CPUs with display

**Controller runtime system**

- 1 fail-safe variant
- 1 hardware platform
- 3 fail-safe CPUs

**Customer interface**

- All data with UPS

**Online service**

- WinAC RTX

**Customer support**

- WinAC RTX

**Software controller and HMI**

- 0.004 µs (Intel CoreDuo 1.2 GHz)
- 0.004 µs (Intel Core2Solo 1.2 GHz)

**CPU 319F**

- 2.5 MB

**CPU 1516**

- 4.0 MB

**CPU 1517**

- 6.5 MB

**CPU 1518**

- 8.0 MB

**CPU 1519**

- 10.0 MB

**WinAC RTX**

- Pre-installed operating system
- 2 fail-safe CPUs
- 3 standard CPUs with display

**Customer interface**

- All data with UPS

**Online service**

- WinAC RTX

**Customer support**

- WinAC RTX
Get more information

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