

SIEMENS

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SIMATIC

Industrial PC SIMATIC IPC547C




Getting Started

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Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

 DANGER
indicates that death or severe personal injury will result if proper precautions are not taken.
 WARNING
indicates that death or severe personal injury may result if proper precautions are not taken.
 CAUTION
with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.
CAUTION
without a safety alert symbol, indicates that property damage can result if proper precautions are not taken.
NOTICE
indicates that an unintended result or situation can occur if the corresponding information is not taken into account.


If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The device/system may only be set up and used in conjunction with this documentation. Commissioning and operation of a device/system may only be performed by **qualified personnel**. Within the context of the safety notes in this documentation qualified persons are defined as persons who are authorized to commission, ground and label devices, systems and circuits in accordance with established safety practices and standards.

Proper use of Siemens products

Note the following:

 WARNING
Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be adhered to. The information in the relevant documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of the Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Introduction

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Purpose of the Getting Started

This Getting Started documentation contains all the information you need for commissioning and using the SIMATIC IPC547C.

Validity of this Getting Started

This Getting Started is valid for all supplied variations of the SIMATIC IPC547C and describes the delivery status as of May 2009.

Operating instructions SIMATIC IPC547C

The operating instructions are supplied with the device in electronic form as a PDF file on the "IPC547C Documentation and Drivers" CD.

The operating instructions provide useful information on many topics, such as the hardware expansion options, modification of the system configuration and technical data.

Conventions

The term "PC" or "device" is sometimes used to refer to the SIMATIC IPC547C product in this documentation.

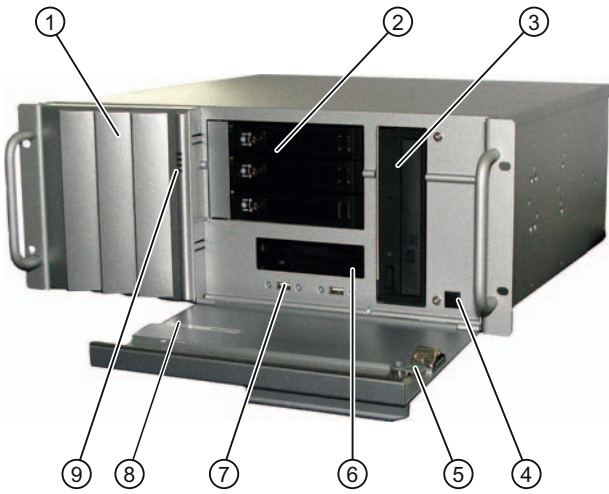
Note

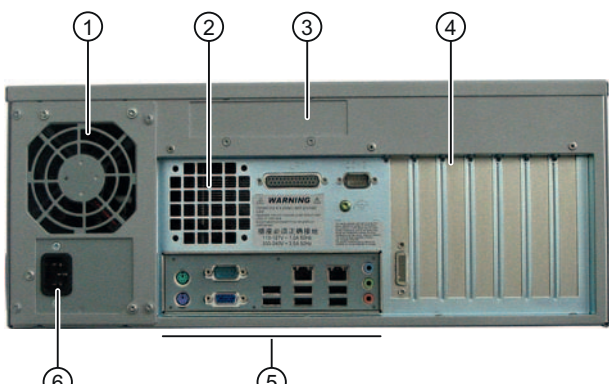
Safety information

To avoid damage to assets and for the sake of your own personal safety, please take note of the information on safety in this Getting Started and in the operating instructions. A warning triangle references this safety information and is shown depending on the potential hazard.

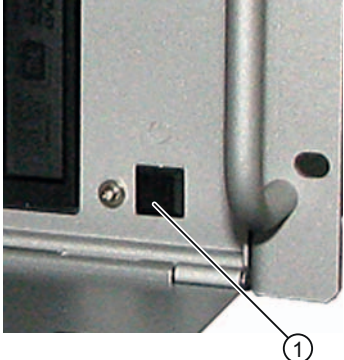
Description

2.1 External structure

Front view of the device	Pos	Description
	①	Front panel with aperture for ventilation of the device (filter mat and fan are located behind this front panel)
	②	Installation options for DVD ROM drives, DVD burners and removable hard disk racks
	③	Installation options for DVD ROM drives, DVD burners
	④	On/off button
	⑤	Front door with lock, provides protection against dirt and unauthorized access. Keep the front door closed during normal operation.
	⑥	Diskette drive
	⑦	USB ports
	⑧	Rating plate
	⑨	Status displays

Rear view of the device	Pos	Description
	①	Power unit fan
	②	Fan aperture Installation option for 60 mm fan
	③	Blanking panel Option for installing a cover for external ports
	④	Expansion slots 4 x PCI, 1x PCIe x16, 1x PCIe x8 (1 Lane), 1x PCIe x1
	⑤	Connection elements
	⑥	Power supply connection

2.2 Operator Controls

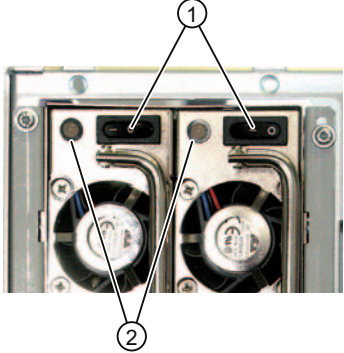
Operator control on/off button	Pos	Description
	<p>①</p>	<p>The on/off/reset buttons have three functions:</p> <ul style="list-style-type: none"> - Switch on the PC (press briefly 1x) - Shut down the operating system and PC (press briefly 1x) - Switch off the PC without shutting down the operating system (press and hold more than 4 seconds) = hardware reset.

CAUTION

Data may be lost when the PC performs a hardware reset.

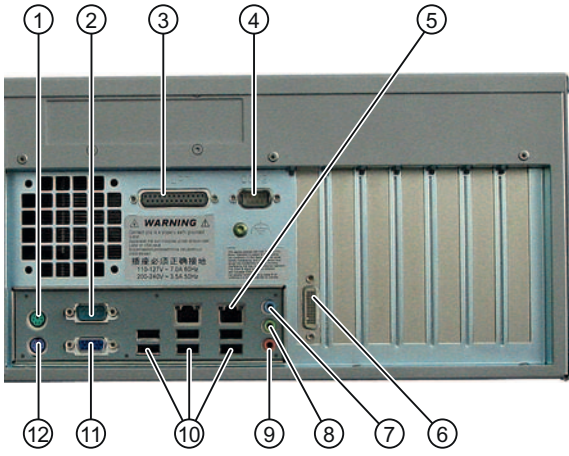
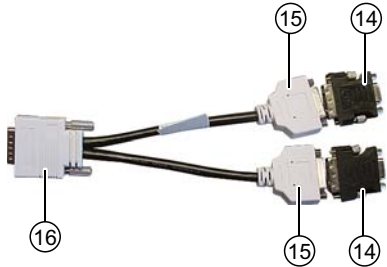
⚠ WARNING

The on/off button signal does not cut off power to the PC!

Operator control elements of redundant power supply	Pos	Description
	<p>①</p>	<p>Description: On / Off switch (The on/off button signal does not cut off power to the PC!)</p>
	<p>②</p>	<p>Power LED</p> <ul style="list-style-type: none"> • Status display for redundant power supply <p>LED lit green: Power supply in operation</p> <p>If there is no redundancy, you will be hear an acoustic signal permanently.</p>

2.3 Connection components


Ports

Port location at the rear of the device		
		
Pos	Description	Description
①	MOUSE	Connection for a PS/2 mouse
②	COM 1	Serial port 1 (V.24), 9-pin D-sub connector
③	LPT	Parallel port, 25-pin
④	COM 2	Serial port 2 (V.24), 9-pin D-sub connector (optional)
⑤	Ethernet 1, 2	2 x RJ-45 Ethernet connectors for 10/100/1000 Mbps ¹⁾
⑥	DVI or DMS59 connection	DVI-D connection of ADD2 card for digital monitors (optional) or DMS59 connector of dual-head graphics card (optional)
⑦	Line in	Connector for analog audio source, 3.5 mm phono jack
⑧	Line out	Connector for active speakers or headset, 3.5 mm phono jack
⑨	Micro (input)	Connection for microphone, 3.5 mm phono jack
⑩	USB	6 ports for USB devices
⑪	VGA	Connection for VGA monitor
⑫	KEYBOARD	Connection for a PS/2 keyboard
⑭	VGA ²⁾	VGA connection (adapter plugged in)
⑮	DVI-I ²⁾	DVI-I connection
⑯	Dual-head adapter ²⁾	DMS59 connector on dual-head graphics card (optional)

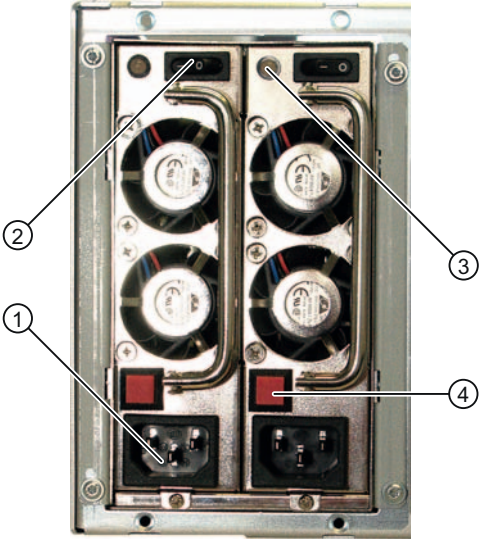
- 1) For unique labeling, the LAN interfaces are numbered on the housing. The numbering by the operating system may deviate from this.
- 2) Using the graphic card

Power supply

Table 2- 1

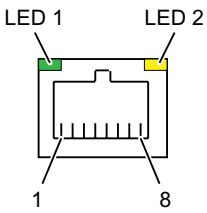
Position of the IEC power connector	Description
	<p>IEC connector for the AC power supply to the device. The permitted power range is 100 VAC to 240 VAC.</p>

Redundant power supply

Redundant power supply	Pos	Description
	①	IEC connector for the AC power supply to the device. The permitted power range is 100 VAC to 240 VAC.
	②	On / Off switch
	③	LED of power supply
	④	Alarm reset

2.4 Status indicators

Status displays				
Pos	Display	Meaning	LEDs	Description
①	TEMP	Temperature status	OFF RED	<ul style="list-style-type: none"> No error Temperature critical (CPU, device temperature).
②	FAN	Fan status		<ul style="list-style-type: none"> CPU heat sink fan fault Enclosure fan fault Power supply fan fault
③	HDD	Display for hard disk access	OFF GREEN	<ul style="list-style-type: none"> No access Access
④	POWER	PC operating status display	OFF GREEN flashing GREEN	<ul style="list-style-type: none"> Hibernate, switched off or unplugged Windows standby PC in operation

Rear status displays			
			
Display	Meaning	LED	Description
Ethernet LAN 1, 2 *	Green LED Link status display	OFF	<ul style="list-style-type: none"> No cable connected Cable disabled Interface disabled
		GREEN	Active cable connected
	Yellow LED Activity status display	OFF	<ul style="list-style-type: none"> No cable connected Cable disabled Interface disabled No activity
		YELLOW	Data transfer active
*	For unique labeling, the LAN interfaces are numbered on the housing. The numbering by the operating system may deviate from this.		

Application Planning

3.1 Transport

Despite the device's rugged design, its internal components are sensitive to severe vibrations or shock. You must therefore protect the PC from severe mechanical stress when transporting it.

You should always use the **original packaging** for shipping and transporting the device.

CAUTION
Risk of damage to the device!
When transporting the PC in cold weather, it may be submitted to extreme variations in temperature. In this situation, ensure that no moisture (condensation) develops on or inside the device.
If condensation develops, wait at least 12 hours before switching on the device.

3.2 Unpacking and checking the delivery unit

Unpacking the device

Note the following points when you unpack the unit

- It is advisable not to dispose of the original packing material. Keep it in case you have to transport the unit again.
- Please keep the documentation in a safe place. It is required for initial commissioning and is part of the device.
- Check the delivery unit for any signs of visible transport damage.
- Verify that the shipment contains the complete unit and your separately ordered accessories.
- Please inform your local dealer of any disagreements or transport damages.
- Please inform Siemens AG by means of the enclosed SIMATIC IPC/PG quality control report form.

Noting the device identification data

The device can be identified uniquely with the help of these numbers in case of repairs or theft.

Enter the following data in the table below:

- Serial number: The serial number (S VP) is located on the rating plate inside the front door.

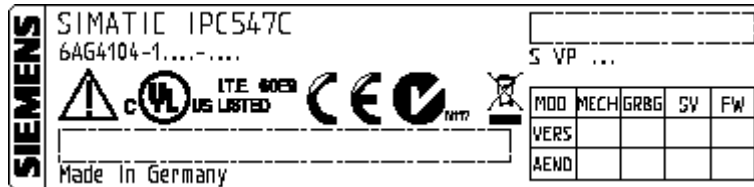


Figure 3-1 Rating plate

- Order number of the device
- Ethernet address: The Ethernet address of the device is available in BIOS Setup (**F2 function key**) , at **Info > (F1 function key) > LAN Address**.
- Microsoft Windows "Product Key" on the "Certificate of Authenticity" (COA). The COA label is attached to the inside of the front door. You may need the Product Key in case you reinstall the operating system.

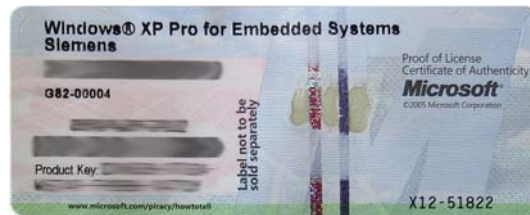


Figure 3-2 COA label

Serial number	S VP ...
Order no.	6AG4104-1 ...
Microsoft Windows Product Key	
Ethernet address 1	
Ethernet address 2	

Device equipment

You will find a list of device equipment on a label behind the front door.

3.3 Ambient and environmental conditions

When you plan your project, you should make allowances for:

- The climatic and mechanical environmental conditions specified in the specifications provided by your operating instructions.
- Avoid extreme ambient conditions as far as possible. Protect your PC from dust, moisture, and heat.
- The device has been designed for usage in a normal industrial environment according to IEC 60721-3-3 (pollutant class 3C2 for chemical influence, 3S2 for sand and dust). PC may not be used in severe operating environments, for example locations with acidic vapors or gasses, without additional protective measures (such as the provision of clean air).
- Keep the PC out of direct sunlight.
- Mount the PC as safely as possible to prevent danger (for example, of falling over).
- The device conforms to protection class IP 30 at the front panel.
- The clearance in the area of the ventilation slots must be at least 50 mm, so that the PC is sufficiently ventilated.
- Do not cover the vent slots of the device.
- The device fulfills the requirements for a fire enclosure according to EN 60950-1. It can be installed without additional fire protection.
- The connected or added peripherals must not introduce a counter emf greater than 0.5 V into the device.

 WARNING

Failure to comply with these requirements for system installation shall render approvals to UL 60950-1, EN 60950-1 void and leads to the risk of overheating and injury!

3.4 Access protection

The access protection of the device exists only when the front panel is closed and no keyboards with an On/Off button (power button) are being used.

Note

In Windows, you have the option of setting the function of the On/Off button to meet your requirements. You can make these setting in the "Power Options" menu.

Installing

4.1 Installing the device

Optional mounting locations

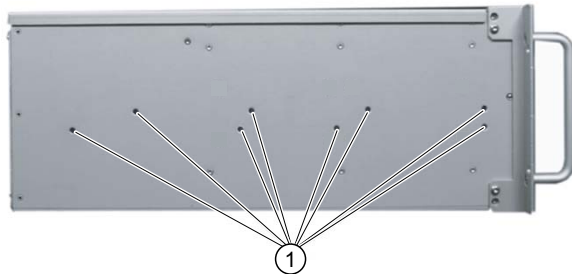
The device can be mounted in control desks, switching cabinets and 19" rack systems, both horizontally and vertically.

Optional mounting methods

The device can be mounted with the following methods

- Mounting with cabinet brackets
- Mounting on device bases
- Tower installation: a separate tower kit can be ordered for tower installation (not available in some countries).
- Mounting on telescopic rails

These telescopic rails allow you to fully extract the device out of the cabinet or rack. Refer to the sections Technical data of the telescopic rails (Page 18) and Dimensional drawing for the use of telescopic rails (Page 30) for more detailed information.




Position of the mounting holes ① for angle brackets or telescopic rails

CAUTION
The mounting screws of the telescopic rails may not protrude more than 5 mm into the enclosure.

Note

For vertical operation, mount the device on a horizontal metal base and secure it against tipping. The following decide bases are available from Rittal for this purpose: Rittal Type TE 7000.620, Rittal Type VR 3861.580, Rittal Type DK 7063.710.

Please refer to the case manufacturer's instructions regarding device bases.

 CAUTION
Risk of injury!
It is not permitted to mount the device only on the 19" brackets of the front panel.

4.2 Technical data of the telescopic rails

Ultimate load per pair	At least 30 kg
Full extraction length	At least 470 mm
Rail thickness	Maximum 9.7 mm
Mounting screws	M5 x 6 mm

The mounting screws of the telescopic rails may not protrude by more than 5 mm into the enclosure.

5.1 Connecting peripherals

Note before connecting

NOTICE

Connect only peripherals approved for industrial applications according to EN / IEC 61000-6-2.

Note

Hot-plug peripherals (USB) may be connected while the PC is in operation.

CAUTION

Peripherals that are incapable of hot-plugging may only be connected after the device has been disconnected from the power supply.

CAUTION

Strictly adhere to the specifications for peripheral equipment.

NOTICE

The connected or added peripherals must not introduce any counter emf into the device.

A counter e.m.f. greater than 0.5 V to ground on the + 3.3 V DC / + 5 V DC / + 12 V DC voltage due to a connected or integrated component can prevent normal operation or even destroy the computer.

When measuring the counter emf, remember the following:

- | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• The computer in question must be turned off and the power supply connector should be plugged in.• During the measurement, all cables from the plant to the computer should be connected.• All other components in the plant must be active. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5.2 Connecting the device to power

Note before you connect the device

Note

The long-range power supply module is designed for operation on 100-240 AC networks. It is not necessary to adjust the voltage range.

 WARNING

Do not connect or disconnect power and data cables during thunderstorms.

 WARNING

The device may only be operated on grounded power supply networks (TN systems to VDE 0100, part 300, or IEC 60364-3).

Operation on ungrounded or impedance-grounded power networks (IT networks) is prohibited.

 WARNING

The permitted nominal voltage of the device must conform with local mains voltage.

 CAUTION

The mains connector must be disconnected to fully isolate the device from mains. Ensure easy access to this area.

A master mains disconnect switch must be installed if the device is mounted in a switch cabinet. Always ensure free and easy access to the power inlet on the device or that the safety power outlet of the building installation is freely accessible and located close to the device.

Note

The power supply contains a PFC (Power Factor Correction) circuit to conform to the EMC directive.

Uninterruptible AC power systems (UPS) must supply a sinusoidal output voltage in the normal and buffered mode when used with SIMATIC PCs with a PFC.

UPS characteristics are described and classified in the standards EN 50091-3 or IEC 62040-3. Devices with sinusoidal output voltage in the normal and buffered mode are identified with the classification "VFI-SS-...." or "VI-SS-....".

Localized information

Outside of the USA and Canada, operation on a 230 V power supply:

This device is equipped with a safety-tested power cord which may only be connected to a grounded shockproof power outlet. If you choose not to use this cable, you must use a flexible cable of the following type: Min. 18 AWG conductor cross-section and 15-A / 250-V shock-proof connector. The cable set must be compliant with safety regulations and stipulated IDs of the country where the system is to be installed.

For the USA and Canada:

A CSA or UL-listed power cord must be used for the United States and Canada.

The connector must be compliant with NEMA 5-15.

120 V AC power supply

A flexible power cord approved to UL and with CSA label should be used. It should have the following features: Type SJT with three leads, min. 18 AWG conductor cross-section, max. length 4.5 m, parallel grounding plug 15 A, min. 125 V.

240 V AC power supply

A flexible power cord approved to UL and with CSA label should be used. It should have the following features: Type SJT with three conductors, min. 18 AWG conductor cross-section, max. length 4.5 m, and tandem grounded connector 15 A, min. 250 V.


Connecting

Steps for connecting the device to mains	
1	Connect the IEC connector ①.
2	Connecting the power cord to the power socket

Secure the power plug

You can secure the power plug in order to avoid unintentional disconnection of the power cord.

Steps for securing the power plug	
1	Remove the fastening screw ① on the power supply module.
2	Fasten the power plug interlock ② to the power supply module

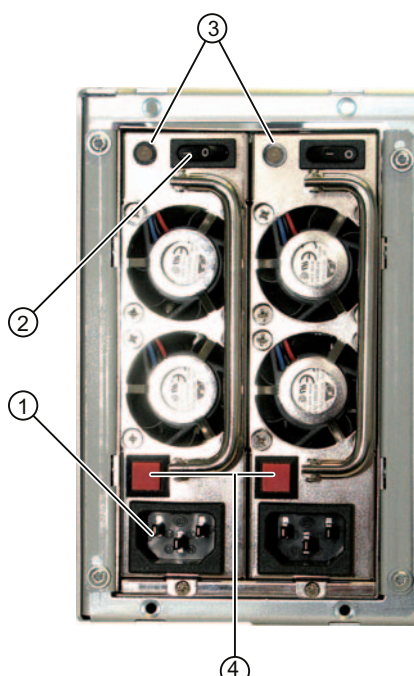


 **WARNING**

If the power plug is secured with a clamp, the power outlet must be freely accessible to allow the device to be easily removed from the mains.

Connecting to the redundant power supply

Steps for connecting the device to mains (redundant power supply)	
1	Connect the IEC connector ①.
2	Plug both power cords into the power outlet at the same time. Note: You will hear a warning signal, if the power supply is not established at the same time. You cancel the warning signal by pressing button ④.
3	Operate on/off button ② of power supply (The LED on the power supply ③ will be lit green)



The diagram shows the internal components of a redundant power supply unit. It features two power supply modules, each with a fan. Callout 1 points to the IEC connector at the bottom left. Callout 2 points to the on/off button on the left power supply module. Callout 3 points to the LED indicator on the top of the left power supply module. Callout 4 points to the red emergency stop button located between the two power supply modules at the bottom.

Commissioning

6.1 Requirements for commissioning

- Before you switch on the device, you should verify that all peripheral devices such the keyboard, mouse, monitor and the power supply are connected.
- The operating system of your device is preinstalled on the hard disk.

CAUTION
Risk of damage to the device! Make sufficient allowances for the device to acquire room temperature before you put it into use. If condensation develops, wait at least 12 hours before switching on the device.

6.2 Initial Commissioning - Initial Startup

The operating system is set up automatically on the device when it is **first** started. Proceed as follows:

1. Press the on/off button. The green power LED lights up. The PC performs a POST. During the self-test, this message appears:
Press <F2> to enter SETUP
2. Wait until this message is cleared, then follow the instructions on the screen.
3. Type in the Product Key as required. You find this key on the "Certificate of Authentication" in the "Product Key" line.

NOTICE
The PC may not be switched off at any time during the entire installation procedure. Do not change the default BIOS settings, otherwise the operating system setup may become corrupted.

4. Automatic restart

After you have entered all necessary information and after the operating system setup is completed, the PC is automatically restarted and displays the user interface of the relevant operating system.

From now on, after you switch on the PC, the user interface of the operating system is automatically opened when the startup routine is completed.

Switching off the device

Note

When working with Windows, always switch off the PC by clicking **Start > Shut Down**.

Press the on/off button behind the front panel door. The green power LED is switched off. Disconnect the mains connector to isolate the device from mains.

6.3 Reinstalling the software

General installation procedure

In case of errors in your software installation, you can reinstall your software using the Recovery CD or DVD, the Documentation and Drivers CD or the Restore DVD.

- **Recovery CD or DVD:** The Recovery CD/DVD contains the Windows PE user interface with tools for configuring the hard drives, and for installation of the operating system and of the languages supported by the operating system (MUI.).

The base language of the operating system to be installed is English. If you want to integrate additional languages, you will need to subsequently install them from Recovery CD2 or DVD.

- **Documentation and Drivers CD:** Contains the documentation and the hardware drivers.
- **Restore DVD:** Contains a hard disk image file with the original factory software (operating system with installed hardware drivers).

Restoring the factory state

- Place the Restore DVD into the drive and restart the device using the on/off switch.
- During the self-test phase, press the F12 key. The "Boot Menu" is displayed when initialization is completed.
- Select the optical drive using the cursor keys.
- Now follow the instructions on the screen.

CAUTION
All existing data, programs, user settings, authorizations and license keys on the drives will be deleted and are thereby lost.

For information on the functions, refer to the README.TXT file on the Restore DVD.

Dimension drawings

7.1 Dimensional drawing of the device

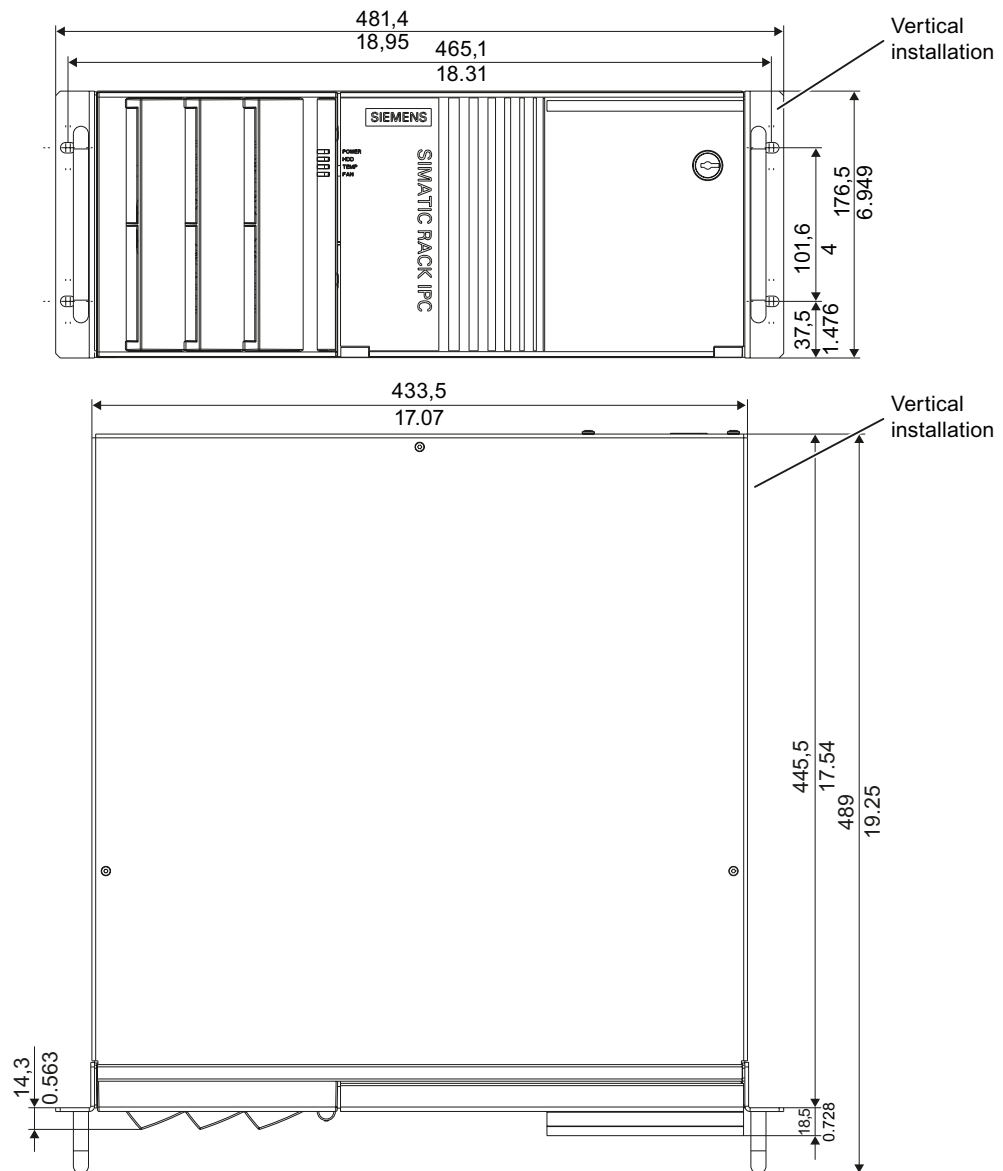


Figure 7-1 Dimension drawing of the device

7.2 Dimensional drawing for the use of telescopic rails

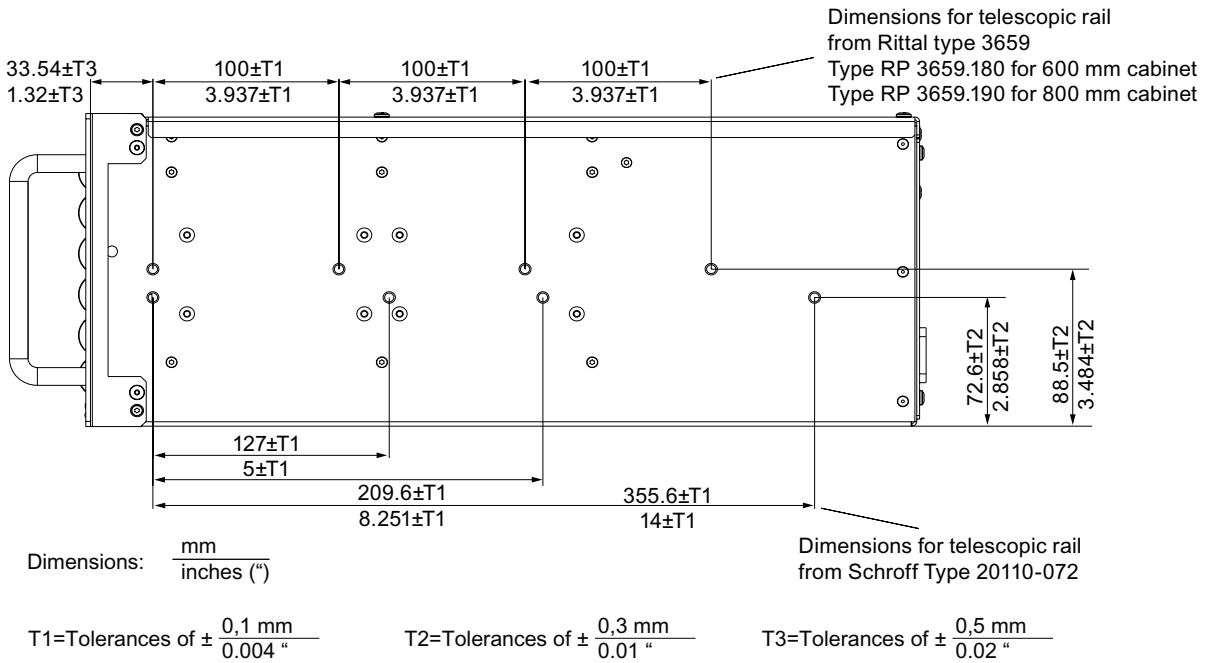


Figure 7-2 Dimension drawing for the use of telescopic rails

Appendix

A.1 Guidelines and declarations

Notes on the CE Label

 The following applies to the SIMATIC product described in this documentation:

EMC guideline

This product meets requirements of EC directive "2004/108/EEC Electromagnetic Compatibility", and is designed for operation in the following fields of application in according with this CE marking:

Scope of application	Requirements for	
	Interference emission	Immunity to interference
Industrial area	EN 61000-6-4 : 2007	EN 61000-6-2 : 2005
Residential and commercial areas and small businesses	EN 61000-6-3 : 2007	EN 61000-6-1 : 2007

The devices conform with EN 61000-3-2:2006 (harmonics) and EN 61000-3-3:1995+A1:2001+A2:2005 (voltage fluctuations and flicker).

Low-voltage guideline

The devices complies with the requirements of the EC Directive 2006/95/EC "Low Voltage Directive". Conformance with this standard has been verified according to EN 60950-1.

Conformity certificates

The EC declaration of conformity and the corresponding documentation are made available to authorities in accordance with the EC directives stated above. Your local sales representative can provide these on request.

Observing the installation guidelines

The installation guidelines and safety instructions specified in this documentation must be observed for commissioning and operation.

Connecting peripherals

Noise immunity requirements to EN 61000-6-2 are met if connected peripherals are suitable for industrial applications. Peripheral devices may only be connected via shielded cables.

A.2 Certificates and Approvals

DIN ISO 9001 certificate

The Siemens quality management system for all production processes (development, production and sales) meets DIN ISO 9001:2000 requirements.

This has been certified by DQS (the German society for the certification of quality management systems).


EQ-Net certificate no.: DE-001108 QM

Software License Agreement

The device is shipped with preinstalled software. Please observe the respective license agreements.

Certification for the USA, Canada and Australia


Security

The following approval is available for the device:	
	Underwriters Laboratories (UL) to Standard UL 60950-1, Report E11 5352 and Canadian National Standard CAN/CSA-C22.2 No. 60950-1 (I.T.E)

EMC

USA	
Federal Communications Commission Radio Frequency Interference Statement	This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Shielded cables	Shielded cables must be used with this equipment to maintain compliance with FCC regulations.
Modifications	Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
Conditions of operations	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADA	
Canadian notice	This Class A digital apparatus complies with Canadian ICES-003.
Avis Canadian	Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

AUSTRALIA	
	This product meets the requirements of the AS/NZS CISPR 22 Standard.

A.3 Service and support

Local information

Contain your Siemens representative (<http://www.siemens.com/automation/partner>) if you have questions about the products described here.

Technical documentation for SIMATIC products

You can find additional documentation for SIMATIC products and systems in the Internet: SIMATIC Guide manuals (<http://www.siemens.com/simatic-tech-doku-portal>)

Easy shopping at the mall

You can find the online catalog and order system under:
Industrial Automation and Drive Technologies (<http://mall.automation.siemens.com>)

Training center

All the training options are listed at:
SITRAIN homepage (<http://www.sitrain.com>)
Find a contact at: Tel. + 49 911 895 3200

Technical support

You can contact technical support for all Industry Automation and Drive Technologies products by:

- Phone: +49 180 5050 222
 - Fax: +49 180 5050 223
- (0.14 /min. from the German landline network, deviating mobile communications prices are possible)
- E-mail: support.automation@siemens.com
 - Internet: Online support request form: (<http://www.siemens.com/automation/support-request>)

When you contact the customer support, please have the following information for the technician on hand:

- BIOS version
- Order No. (MLFB) of the device
- Installed additional software
- Installed additional hardware

Online Service & Support

Information about the product, Support and Service, right through to the Technical Forum, can be found at: Industry Automation and Drive Technologies - Homepage (<http://www.siemens.com/automation/service&support>)

After-sales information system for SIMATIC PC / PG

Information about contacts, drivers, and BIOS updates, FAQs and Customer Support can be found at: After-sales information system for SIMATIC PC/PG (<http://www.siemens.com/asis>)

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