SIEMENS

SIMATIC NET

PG/PC - PROFIBUS
CP 5711

Operating Instructions

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
indicates that minor personal injury can result if proper precautions are not taken.

NOTICE
indicates that property damage can result if proper precautions are not taken.

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 product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

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 complied with. The information in the relevant documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of 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.

Preface

What the consignment contains

The following components are supplied with the CP 5711:

- CP 5711 communications processor
- USB cable
- 2-pin, plug-in terminal strip for external 24 V power supply

Please check that the consignment you have received is complete. If it is not complete, please contact your supplier or your local Siemens office.

Validity of this documentation

These operating instructions are valid for the following product:

- CP 5711
  Article number: 6GK1 571-1AA00

Content of this documentation

These operating instructions contain information about the installation and configuration of the CP 5711 communications processor.

Updated operating instructions on the Internet

You will find the current version of these operating instructions on the Product Support pages under the following entry ID:
34803449 (https://support.industry.siemens.com/cs/ww/en/view/34803449)

Further documentation

The documents listed below contain more detailed information on commissioning and using the communications processor. You will find this documentation on the Product Support pages on the Internet under the following entry link:

Support (https://support.industry.siemens.com/cs/ww/en/ps)

Enter the entry ID shown below of the relevant manual as the search item.

- **Configuration manual Commissioning PC Stations**

    This provides you with detailed information on commissioning and configuring SIMATIC NET PC communications modules.

    Entry ID:
    109488960 (https://support.industry.siemens.com/cs/ww/en/view/109488960)

- **System manual SIMATIC NET Industrial Communication with PG/PC**

    – **Volume 1– Basics**

        Entry ID:
        77376110 (https://support.industry.siemens.com/cs/ww/en/view/77376110)

    – **Volume 2– Interfaces**

        Entry ID:
        77378184 (https://support.industry.siemens.com/cs/ww/en/view/77378184)

        The system manuals introduce the topic of industrial communication and explain the communications protocols used. There is also a description of the OPC interface as user programming interface.

- **Installation manual "SIMATIC NET PC Software"**

    This document contains detailed information on installing the "SIMATIC NET

    PC Software".

    Entry ID:
    77377602 (https://support.industry.siemens.com/cs/ww/en/view/77377602)

- **System manual PROFIBUS Network Manual**

    In this document you will find detailed information about setting up a PROFIBUS network.

    Entry ID:
    35222591 (https://support.industry.siemens.com/cs/ww/en/view/35222591)

SIMATIC NET documentation

You will find the entire SIMATIC NET documentation on the pages of Product Support:

15247 (https://support.industry.siemens.com/cs/ww/en/ps/15247)

Go to the required product group and make the following settings:

→ Entry list → Entry type "Manuals / Operating Instructions"

Trademarks

The following and possibly other names not identified by the registered trademark sign ® are registered trademarks of Siemens AG:

SIMATIC NET, HARDNET, SOFTNET, CP 1612, CP 1613, CP 5612, CP 5613, CP 5614, CP 5622

Industry Online Support

In addition to the product documentation, the comprehensive online information platform of Siemens Industry Online Support at the following Internet address:

(http://support.automation.siemens.com/WW/llisapi.dll?func=cslib.csinfo2&aktprim=99&lang=en)

Apart from news, there you will also find:

* Project information: Manuals, FAQs, downloads, application examples etc.
* Contacts, Technical Forum
* The option submitting a support query:
  (https://support.automation.siemens.com/WW/llisapi.dll?func=cslib.csinfo&lang=en&objid=38718979&caller=view)
* Our service offer:

  Right across our products and systems, we provide numerous services that support you in every phase of the life of your machine or system - from planning and implementation to commissioning, through to maintenance and modernization.

You will find contact data on the Internet at the following address:
 (http://www.automation.siemens.com/partner/guiwelcome.asp?lang=en)

SITRAIN - Training for Industry

The training offer includes more than 300 courses on basic topics, extended knowledge and special knowledge as well as advanced training for individual sectors - available at more than 130 locations. Courses can also be organized individually and held locally at your location.

You will find detailed information on the training curriculum and how to contact our customer consultants at the following Internet address:

 (www.siemens.com/sitrain)

SIMATIC NET glossary

Explanations of many of the specialist terms used in this documentation can be found in the SIMATIC NET glossary.

You will find the SIMATIC NET glossary on the Internet at the following address:

50305045 (http://support.automation.siemens.com/WW/view/en/50305045)

Table of contents

Description of the device

<div style="text-align: right; font-size: 3em;">1</div>

1.1   Product characteristics

Properties

The CP 5711 is a communications processor for connecting PCs (personal computers) or PGs (programming devices) to PROFIBUS and MPI networks. The essential properties are as follows:

● Transmission speeds up to 12 Mbps.

● Floating RS-485 connector.

● Linking of up to 32 devices (PC, PG, SIMATIC S7 or ET 200) to form a network segment.

     – By linking several segments with repeaters, up to 64 nodes can be connected.

● The additional interface signals for a direct link to a PLC (Programmable Logic Controller) are supported up to 187.5 Kbps.

● Connection to PGs and PCs with a USB Interface:

     – At the CP end: Type B with locking mechanism

     – At the PG/PC end: Type A

     – Plug and play

● With an additional DIN rail holder, the CP is suitable for mounting on a 35 mm DIN rail.

Appearance

The following figure shows the CP 5711 communications processor mounted on a 35 mm DIN rail:

1	USB interface type B with USB cable
2	LEDs
3	DIN rail
4	PROFIBUS interface with D-sub male connector
5	Terminals for external 24 V power supply
6	Ground connection (cannot be seen in the figure)

1.2 PROFIBUS interface

PROFIBUS network

The physical link between the PROFIBUS interface and the PROFIBUS network is via a floating RS-485 interface that is part of the module. Depending on the network configuration, data rates of 9.6 Kbps up to a maximum of 12 Mbps are possible in the PROFIBUS network.
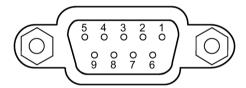

Note

You will find information about the structure of a PROFIBUS network in the system manual "PROFIBUS Network Manual". The document is part of the Manual Collection. You will also find this on the Product Support pages under the following entry ID:

35222591 (https://support.industry.siemens.com/cs/ww/en/view/35222591)

PIN assignment

The D-sub female connector has the following pin assignment:

PIN	Short name	Meaning	Input/output
1	NC	Socket pin 1 is not connected.	-
2	NC (M24)	Socket pin 2 is not connected. With other MPI/DP components, the return line of the floating 24 V power supply may be via this pin.	-
3	LTG_B	Signal line B of the PROFIBUS connector.	Input/output
4	RTSAS	RTSAS, input signal for direct MPI link. The control signal is "1" active when the automation system connected over a special MPI cable is sending.	Input
5	M5EXT	M5EXT return line (GND) of the 5 V power supply and reference potential for the signals RTSAS and RTS of the PROFIBUS interface.	Output
6	P5EXT	P5EXT power supply (+5 V) for the 5 V power supply. (only for bus termination)	Output
7	NC (P24V)	Socket pin 7 is not connected. With other MPI/DP components, the P24V supply of the floating 24 V power supply may be via this pin.	-
8	LTG_A	Signal line A of the PROFIBUS connector.	Input/output

PIN	Short name	Meaning	Input/output
9	RTS	RTS output signal of the CP module. The control signal is "1" active when the device (PG or PC) is sending.	Output
Shield		The shield is connected to components of the connector housing.	

1.3 Meaning of the LED display

LED display

The meaning of the LED display is as follows:

Labeling	Status	Meaning
PWR USB (green)	On	The CP is connected to an active USB connector
	Off	There is no connection to an active USB connector
PWR EXT (green)	On	There is an additional power source connected to the CP via the external power supply.
	Off	There is no external power supply connected to the CP. Power is supplied only via the active USB interface.
IDENT (green)	Flashes regularly	Identification of the CP 5711 to distinguish it from other CPs in the same PG/PC
		Using a relevant diagnostics function in the "Communications Settings" configuration tool or the "Station Configuration Editor", you can activate these LEDs for test purposes.
LNK/SF (green or red)	Green on	A node was detected on PROFIBUS
	Red on	The CP 5711 is defective
	Read flashing fast	Exception status; unexpected runtime error
	Read flashing slowly	USB problem
	Red flashes cyclically (3 times fast, then break)	Bus disruption. You will find the possible causes in the message box that appears on the screen
	Off	No node was detected on PROFIBUS
ACT (green)	Flashing	The CP is actively involved in data traffic

Software installation

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2.1 Installing the "SIMATIC NET PC Software"

"SIMATIC NET PC Software"

The "SIMATIC NET PC software" is one of several software packages with which you can operate the communications processor in your PG/PC.

To configure the communications processor, you require additional configuration software. You will find information on the configuration software in the section "Configuration (Page 23)".

Condition

The plug and play function is activated in the BIOS of your PG/PC.

Prior to hardware installation

Install the software as described in the installation manual "SIMATIC NET PC Software". You will find this installation manual on the Product Support pages under the following entry ID:

77377602 (https://support.industry.siemens.com/cs/ww/en/view/77377602)

You should also note the current information on the "SIMATIC NET PC software" on the Product Support pages:
Support (https://support.industry.siemens.com/cs/ww/en/ps/15362/pm)

After the hardware installation

After installing the communications processor, your PG/PC automatically searches for a suitable driver.

1. Follow the instructions of the Hardware Wizard of Windows.

2. Do not activate the search for drivers on the Internet.

2.2 Uninstalling the "SIMATIC NET PC Software"

Condition

The "SIMATIC NET PC Software" is installed on the PG/PC.

Procedure

Note

The recommended procedure removes the entire "SIMATIC NET PC Software" on the PG/PC, not only the driver for the communications processor.

Uninstall the entire software package as described and recommended in the installation manual "SIMATIC NET PC Software".

You will find the installation manual on the "SIMATIC NET PC Software" DVD or on the Product Support pages under the following entry ID:

77377602 (https://support.industry.siemens.com/cs/ww/en/view/77377602)

Hardware installation   3

3.1   Connecting to the PG/PC

Safety notices

⚠ WARNING
EXPLOSION HAZARD
When used in hazardous environments corresponding to Class I, Division 2 or Class I, Zone 2, the device must be installed in a cabinet or a suitable enclosure. To comply with EC Directive 94/9 (ATEX95), this enclosure must meet the requirements of at least IP54 in compliance with EN 60529.

⚠ WARNING
EXPLOSION HAZARD
If the cable or conduit entry point exceeds 70 °C or the branching point of conductors exceeds 80 °C, special precautions must be taken. If the device is operated at an ambient temperature of 0 °C - 60 °C, make sure that you use cables with a permitted ambient temperature of at least 80 °C.

⚠ WARNING
EXPLOSION HAZARD
Take measures to prevent transient voltage surges of more than 40% of the rated voltage. This is the case if you only operate devices with SELV (safety extra-low voltage).

⚠ WARNING
EXPLOSION HAZARD
Do not use any parts that show evidence of damage.

⚠ WARNING
EXPLOSION HAZARD
DO NOT CONNECT OR DISCONNECT EQUIPMENT WHEN A FLAMMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT.

> ⚠ **WARNING**
>
> **EXPLOSION HAZARD**
>
> SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 OR ZONE 2.

> ⚠ **WARNING**
>
> **EXPLOSION HAZARD**
>
> DO NOT OPEN WHEN ENERGIZED.

Notes on parallel operation with other USB devices

> **Note**
>
> The use of other USB devices (for example a WebCam, bulk memory) on the PG/PC can impair the performance of the communications processor.

> **Note**
>
> Removing and inserting USB devices can cause functional disruptions on the USB interface. In extreme cases, communication via the communications processor may even be aborted making it necessary to restart the application.

> **Note**
>
> - **First install the software**
>
>   First install the software before you connect the communications processor to the PG/PC, see the section Software installation (Page 13).
>
> - **Activated plug and play function**
>
>   The plug and play function must be activated in the BIOS of your PG/PC.

Permitted number of communications processors in the PG/PC

The driver software supports a maximum of 1 CP 5711 per PG/PC.

Connecting to the PG/PC

Before you connect the communications processor to your PG/PC, note the following information:

USB cable

To connect the communications processor, use only the supplied USB cable or another USB cable suitable for industrial use.

USB connection to PG/PC

To achieve the guaranteed configuration limits with all protocols and at all bus transmission speeds, you should use at least a USB 2.0 high-speed connector.

You should preferably use the USB connectors located at the back of the housing of your PG/PC. The front USB connectors usually have a lower signal quality.

We recommend that you do not use any additional USB hubs.

Removing the CP 5711

Delete existing configurations before you disconnect the communications processor from your PG/PC.

You must also log off the communications processor reliably before you disconnect the communications processor from the PG/PC. Click the "Safely Remove Hardware" icon in the taskbar notification area.

3.2 Hardware compatibility

Compatibility with other communications processors

The CP 5711 can replace a CP 5512.

Note

- **USB module**

  Please note: The CP 5711 is a USB module. A CP 5512, on the other hand, is connected via a CardBus interface. This means that you can only replace a CP 5512 with a CP 5711 if there is a USB connector available on the PG/PC.

- **If the CP 5512 has been removed from the PG/PC, no configuration changes need to be made**

  You can adopt the configuration of the CP 5512. To do this, you simply need to reload the configuration.
  Note the following: When loading the CP 5512 configuration, the CP 5512 has priority over a CP 5711. As long as a CP 5512 is connected, its configuration cannot be adopted by a CP 5711. You should therefore remove the CP 5512 from your PC/PG.

Procedure for replacement

To replace a configured, connected CP 5512 with a CP 5711, follow the steps below:

1. Delete the configured CP 5512 from the "Station Configuration Editor".

2. Remove the CP 5512 hardware from the PG/PC.

3. Restart your PG/PC.

Note

Note that you need to have installed at least SIMATIC NET PC Software Edition 2008 including SP1 to be able to operate the CP5711.

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4. Connect the CP 5711 to the PG/PC.
   The plug and play function of Windows automatically searches for a driver.

5. Follow the instructions of the Hardware Wizard of Windows.
   Do not activate the search for drivers on the Internet.

6. Download the CP 5512 configuration.

3.3 External power supply

Safety notices

> ⚠ **WARNING**
>
> **Safety extra-low voltage - SELV**
>
> The equipment is designed for operation with Safety Extra-Low Voltage (SELV) by a Limited Power Source (LPS).
>
> This means that only SELV / LPS complying with IEC 60950-1 / EN 60950-1 / VDE 0805-1 may be connected to the power supply terminals. The power supply unit for the equipment power supply must comply with NEC Class 2, as described by the National Electrical Code (r) (ANSI / NFPA 70).
>
> **Devices operated with a redundant power supply**
>
> If the device is connected to a redundant power supply (two separate power supplies), both must meet these requirements.

Note

Overvoltage protection

If the communications processor is supplied over long 24 V power supply lines or networks, measures are necessary to prevent coupling of strong electromagnetic pulses on the supply lines. Such coupling can result, for example, due to lightning or switching of large inductive loads.

One of the tests used to attest the immunity of the communications processor to electromagnetic interference is the "surge immunity test" according to EN 61000-4-5. This test requires overvoltage protection for the power supply line. A suitable device is, for example, the Dehn Blitzductor BVT AD 24V type no. 918 402 or a comparable protective element.

Manufacturer;
DEHN+SÖHNE GmbH+Co.KG, Hans Dehn Str. 1, Postfach 1640, D-92306 Neumarkt, Germany

Conditions for the external power supply

The CP 5711 can also be operated with an external power supply with 24 VDC. You require this external power in the following situations:

● The CP 5711 is operated on an external hub without its own power supply.

● The USB interface on the PC is a low-power interface that supplies only 100 mA.

● The end termination must be activated on the PROFIBUS connector if the CP 5711 is located at the end of the cable. If you want this termination to be active even when no USB cable is connected, an external power supply is necessary.

Requirements of the external power supply

Use an external power supply with the following characteristics:

- Rate voltage 24 VDC

- Permitted range 22.8 to 25.2 VDC

- Current consumption max. 300 mA

- Safety extra low voltage (SELV) to EN 60950

Disconnection from the external power supply

NOTICE
First disconnect the USB connection
Keep to the order below if you disconnect the communications processor from the external power supply. Otherwise, you may encounter uncontrolled interruptions in communication.

Follow the steps below to disconnect the communications processor from the external power supply:

1. First, shut down any communication via the CP 5711.

2. Disconnect the USB connection from the device to the PC.

3. Disconnect the external power supply from the device.

3.4 Installing on a DIN rail

Condition

To mount the communications processor on a 35 mm DIN rail, you require an additional DIN rail holder. You can obtain this holder under the article number 6GK1 571-1AA00-0AH0.
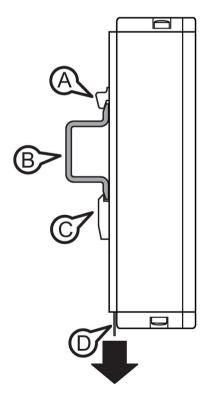
Safety notice

> ⚠️ **WARNING**
>
> When used in hazardous environments corresponding to Class I, Division 2 or Class I, Zone 2, the device must be installed in a cabinet or a suitable enclosure.
>
> To comply with EC Directive 94/9 (ATEX95), this enclosure must meet the requirements of at least IP54 in compliance with EN 60529.

Procedure

A   Upper DIN rail holder
B   DIN rail
C   Lower DIN rail holder with spring catch
D   Spring DIN rail slider

1. Push the DIN rail holder into the profile on the rear of the CP.

2. Place the upper DIN rail holder on the upper edge of the DIN rail so that the PROFIBUS connector points down.

3. Pull down the DIN rail slide and hold it in position.

4. Press the lower DIN rail holder against the lower edge of the DIN rail.

5. Release the DIN rail slider.
   The catch in the lower DIN rail holder locks onto the DIN rail.

Removing the communications processor from the DIN rail

To release the locking mechanism in the lower DIN rail holder, pull the DIN rail holder down. If necessary use a screwdriver or pliers.

Configuration 4

Configuring

To be able to configure the communications processor, the following engineering or configuration tools are available:

- STEP 7 V5.5
- STEP 7 Professional (TIA Portal)
- Communication Settings (COML S7)

The steps involved are described in the "Commissioning PC Stations" manual or in the relevant online helps.

Compatibility during configuration

If there is not yet a CP 5711 in the hardware catalog of your STEP 7 version, you can select a CP 5512 for configuration. The CP 5711 is compatible with the configuration of the CP 5512.

Technical specifications

<div style="text-align: right; font-size: 2em;">5</div>

Technical specifications of the CP 5711		
Connection to PROFIBUS		
	Amount	1
	Transmission speeds	9.6 kbps, 19.2 kbps, 45.45 kbps, 93.75 kbps, 187.5 kbps, 500 kbps, 1.5 Mbps, 3 Mbps, 6 Mbps, 12 Mbps
	Design	9-pin D-sub female connector with screw locking mechanism RS-485 (ungrounded within the SELV limits)
	Properties	Grounded cable shield Floating interface signals
Connection to PG/PC		
	CP end PG/PC end	USB socket type B with locking mechanism USB socket type A
	Minimum requirement	V 2.0 Plug and play
Electrical specifications of the USB connection		
Operating voltage	Rated voltage	5 VDC
	Permitted range	4.75 to 5.25 VDC
	Properties	Safety extra low voltage (SELV) to EN 60950
		Direct supply via USB if provided by the PG/PC; external power supply possible
Current consumption	Maximum	500 mA
Effective power loss	Typical	2.5 W
Electrical specifications when using an external power supply		
Operating voltage	Rated voltage	24 VDC
	Permitted range	22.8 to 25.2 VDC
	Properties	Safety extra low voltage (SELV) to EN 60950
Current consumption	Maximum	300 mA

Technical specifications of the CP 5711		
Permitted ambient conditions		
Operating conditions	Temperature (EN 60068-2-1+2)	0 ... +60°C
	Temperature change, maximum	≤10 K/h
	Relative humidity (EN 60068-2-78)	95%, 16 h at 30°C no condensation
	Rapid temperature change (EN 60068-2-14)	3 h at 0°C, 3 h at 60°C 5 cycles
Storage and transportation conditions	Temperature (EN 60068-2-1+2)	-40 ... +70°C
	Temperature change, maximum	≤ 20 K/h
	Rapid temperature change when damp (EN 60068-2-30)	+25...+55°C at 97% no condensation
	Rapid temperature change (EN 60068-2-14)	-40 ... +70°C, 2 cycles
Vibration, operating (EN 60068-2-6)	Frequency 10 ... 58 Hz Frequency 58 ... 500 Hz Number of cycles	0.075 mm amplitude 10 m/s^2 Acceleration 10/axis
Shock, operating (EN 60068-2-27)	Half sine Time Number of shocks	50 m/s^2 (5 g) 30 ms 100/axis
Design, dimensions and weight		
Module format		USB module
Weight		Approx. 300 g
Dimensions (W x H x D) in mm		85 x 137 x 35
Electromagnetic compatibility		
Emission	• to EN 55022 • to FCC	Class B Class A
Immunity	On signal cables • Surge to EN 610004-5 • Burst to EN 61000-4-3	±2 kV ±2 kV
	to discharge of static electricity • Contact discharge to IEC 61000-4-2	±6 kV
	to radiated radio frequencies • to EN 61000-4-3	10 V/m at 80 MHz ... 2 GHz 10 V/m, 80% amplitude modulation at 1 kHz
	• to EN 61000-4-6	10 kHz ... 80 MHz

Approvals

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Note

The specified approvals apply only when the corresponding mark is printed on the communications processor.

Electromagnetic compatibility - EMC directive

The communications processor meets the requirements of the EC Directive:2004/108/EEC (EMC directive).

The communications processor is designed for use in the following areas:

Area of application	Requirements	
	Emission	Immunity
Residential areas, business and commercial operations, and small businesses	EN 61000-6-3	EN 61000-6-1
Industrial environment	EN 61000-6-4	EN 61000-6-2

ATEX and FM approval (hazardous location)

The communications processor has the following approvals relating to hazardous areas:

- KEMA 07 ATEX 0145

  EN 60079-15
  EN 60079-0
  Ex II 3 G Ex nA IIC T4 Gc

- FM 3611 Hazardous (Classified) Location Electrical Equipment:
  Non Incendive / Class I / Division 2 / Groups A,B,C,D / T* and
  Non Incendive / Class I / Zone 2 / Group IIC / T*

(T.. / T* = For detailed information on the temperature class, refer to the type plate.)

IECEx

The SIMATIC NET products meet the requirements of explosion protection according to IECEx.

IECEx classification:

Ex nA IIC T4 Gc

DEK 14.0025X

The products meet the requirements of the following standards:

- IEC 60079-15 (Explosive atmospheres - Part 15: Equipment protection by type of protection "n")
- IEC 60079-0 (Explosive atmospheres - Part 0: Equipment - General requirements)

You will find the current versions of the standards in the currently valid IECEx certificates.

EC declaration of conformity

You will find the EC declaration of conformity for this communications processor on the Product Support pages under the following entry ID:

58826997 (https://support.industry.siemens.com/cs/ww/en/view/58826997)

C-TICK approval

The communications processor meets the requirements of the Australian AS/NZS 3548 standard according to EN 61000-6-3.

cULus Approval for Information Technology Equipment

cULus Listed I. T. E.

Underwriters Laboratories Inc. complying with

- UL 60950-1 (Information Technology Equipment)
- CSA C22.2 No. 60950-1-03

Report no. E115352

cULus Approval Hazardous Location

cULus Listed I. T. E. FOR HAZ. LOC.

Underwriters Laboratories Inc. complying with

- UL 60950-1 (Information Technology Equipment)
- ANSI/ISA 12.12.01-2007
- CSA C22.2 No. 213-M1987

Approved for use in
Cl. 1, Div. 2, GP A, B, C, D T4
Cl. 1, Zone 2, GP IIC T4

Report no. E240480

FCC approval

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.

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.

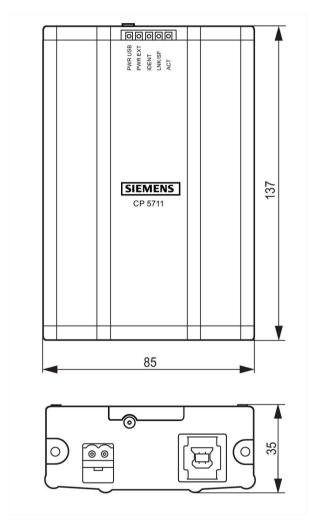## Marking for the customs union

EAC (Eurasian Conformity)

Customs union of Russia, Belarus and Kazakhstan

Declaration of the conformity according to the technical regulations of the customs union (TR CU)

Dimension drawing

<div style="text-align: right">

B

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CP 5711 front view and view from above

All dimensions in millimeters

Front view and side view of the DIN rail holder

All dimensions in millimeters.

CP 5711