

SIMATIC Ident

RFID systems SIMATIC RF1060R




Operating Instructions

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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
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.

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Introduction

Purpose of these operating instructions

This documentation provides you with an overview of the installation and programming of the SIMATIC RF1060R reader. The operating instructions are intended for users and programmers involved in configuration, commissioning and servicing of the SIMATIC RF1060R.

Registered trademarks

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Description

Companies have been using RFID-based identification card systems for years to control access to buildings. With the increasing need for security and growing requirements for documentation, solutions are demanded with which access to machines and plants can be controlled on a user basis. The SIMATIC RF1060R reader provides the option of using employee identification cards also when operating machines. This allows finely graded access concepts to be implemented or user-specific instructions to be stored - all with one card.



Figure 1-1 Product photo of the SIMATIC RF1060R

The SIMATIC RF1060R is a reader for connection to a Windows based computer. The connection is via a USB interface of the computer. The SIMATIC RF1060R is handled by the computer like a keyboard. This makes it unnecessary to install specific RFID drivers.

On the Siemens support page "Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/view/109741590>)" there are functions for accessing the reader in the form of a DLL file with a demo application. With the help of this DLL file you can implement user identification for access to your own applications quickly and simply. To do this, the reader reads out the serial numbers of MIFARE and ISO 15693 transponders. Depending on the card type, the serial number can be 4, 7 or 10 bytes long (MIFARE / ISO 14443) or 8 bytes (ISO 15693).

Please note that serial numbers of transponders that begin with the byte "0x08" are always newly generated by the transponder. This makes an assignment of serial numbers and transponders impossible.

The reader can be addressed and controlled by functions, for example to change the status of the reader or to communicate with a transponder. With the aid of the functions, you can for example control the three-color reader LED. Which functions exist and how you use them is described in this manual.

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions only form one element of such a concept.

Customer is responsible to prevent unauthorized access to its plants, systems, machines and networks. Systems, machines and components should only be connected to the enterprise network or the internet if and to the extent necessary and with appropriate security measures (e.g. use of firewalls and network segmentation) in place.

Additionally, Siemens' guidance on appropriate security measures should be taken into account. For more information about industrial security, please visit

Link: (<http://www.siemens.com/industrialsecurity>)

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends to apply product updates as soon as available and to always use the latest product versions. Use of product versions that are no longer supported, and failure to apply latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under

Link: (<http://www.siemens.com/industrialsecurity>).

Proceed as follows to install the RF1060R reader:

1. Push the reader through the mounting opening intended for this purpose ($76 \times 48 \pm 0.3$ mm) ①.

Make sure that the reader locks in place so that it cannot fall out,

2. Mount the cover plate on the rear of the reader with the 4 Torx screws (max. 1.5 Nm) ②.
3. Tighten the 4 x stud screws (max. 0.5 Nm) ③.
4. If required, mount the optional card holder on the front of the reader.

To do this, place the card holder on the side of the reader housing and press it over the reader front so that the card holder locks in place.

Note

The thickness of the wall on which the reader is mounted may be a maximum of 7 mm.

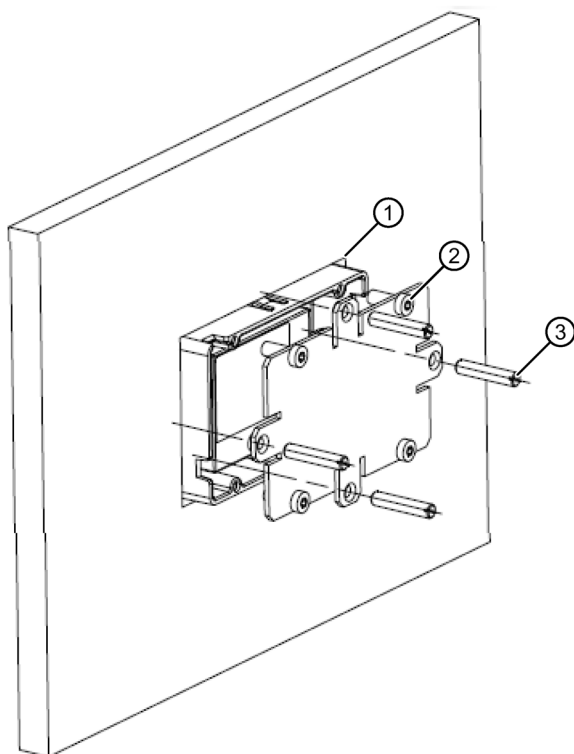


Figure 2-1 Mounting the RF1060R

Installing and commissioning

Proceed as follows to install and commission the SIMATIC RF1060R reader:

1. Connect the RF1060R reader to your PC using the USB cable.

Reaction: The message "A USB device was installed successfully" appears.

2. Install DLL drivers and the demo application on your PC using the installation file "RF1060R.exe".

You will find the file on the Internet on the pages of the Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/view/109741590>).

3. Start the demo application by double-clicking on the file "AccessControlDemo.exe".

You will find more information on the demo application in the section "The demo application (Page 20)".

Programming interface

General information

On the Siemens support page "Industry Online Support (<https://support.industry.siemens.com/cs/ww/en/view/109741590>)" you will obtain the file "RF1060R.zip". This contains access functions as a DLL file and a demo application that illustrates the use of the DLL file.

With the demo application "AccessControlDemo" you can address the RF1060R directly from your application via the USB interface.. A precompiled DLL file for Windows systems that provides this function is included in the package.

The DLL makes various functions for communication with the reader available for integration in your application. The reader has return values and status codes to inform you of the reader status and execution of the functions.

4.1 The functions of the DLL

4.1.1 brp_open_usb_session

The function opens a connection to the reader via USB and returns a session key that is required for all functions and continued communication via this connection. If the connection was successfully established, the value "BRP_OK" is returned

Note that all the following functions can only be executed after you have established a connection to the reader with the function "brp_open_usb_session". If this is not the case, an error is signaled back.

Note

Parallel operation not possible

Note that with the application, a connection can only be established to one reader at any one time. For this reason "brp_open_session" may only be called up once and before it can be called again must first be closed by the function "brp_close_session".

After a "brp_open_session" the parameter "Handle" must always be = "0". If the parameter ≠ "0", there is either an error or the function "brp_open_session" was called up several times in succession.

Function call

```
int
brp_open_usb_session(
    int * Handle,
    DWORD ProductID
);
```

Description of the parameters

Parameter	Description
brp_open_usb_session	The parameter opens a connection to the reader via USB
Handle	Session key initialized by this function.
ProductID	The product ID of the device to be connected.
Return value	<ul style="list-style-type: none"> BRP_OK BRP_ERR_BUSY BRP_ERR_GENERAL_IO BRP_ERR_BUFFER_OVERFLOW BRP_ERR_NO_MORE_HANDLES BRP_ERR_INSUFFICIENT_MEM <p>You will find more information on return values in the section "Return values (Page 18)".</p>

4.1.2 brp_close_session

This function terminates an existing USB connection that was established earlier.

Function call

```
int
brp_close_session(
    int Handle
);
```

Description of the parameters

Parameter	Description
brp_close_session	This parameter terminates a connection.
Handle	The session key returned by the function "brp_open_usb_session()".
Return value	<ul style="list-style-type: none"> BRP_OK BRP_ERR_WRONG_HANDLE <p>You will find more information on return values in the section "Return values (Page 18)".</p>

4.1.3 syscmd_reset

This function restarts the reader.

Note that after the function "syscmd_reset" you need to execute the function "brp_close_session" followed by "brp_open_usb_session".

Function call

```
int  
syscmd_reset (  
    int Handle,  
    int * Status  
);
```

Description of the parameters

Parameter		Description
syscmd_reset		The parameter restarts the reader.
	Handle	The session key returned by the function "brp_open_usb_session()".
	Status	You will find more information on the reader status in the section "Status codes (Page 19)".
Return value		<ul style="list-style-type: none">BRP_OK You will find more information on return values in the section "Return values (Page 18)".

4.1.4 syscmd_get_info

The function reads out information about the firmware of the reader.

The value read out contains information on the type of firmware, the version and the serial number of the reader.

Function call

```
int  
syscmd_get_info(  
    int Handle,  
    char * fws,  
    int * Status  
);
```

Description of the parameters

Parameter	Description
syscmd_get_info	The parameter reads out information about the firmware of the reader.
Handle	The session key returned by the function "brp_open_usb_session()".
fws	This parameter contains information on the type of firmware, the version and the serial number of the reader. Format: xx...xx r.rr.rr dd/dd/dd ssssssss
	xx...xx Firmware type
	r.rr.rr Version (major release, minor release, build ID)
	dd/dd/dd Date of the version
	ssssssss Serial number of the reader
Status	You will find more information on the reader status in the section "Status codes (Page 19)".
Return value	<ul style="list-style-type: none"> BRP_OK You will find more information on return values in the section "Return values (Page 18)".

4.1.5 syscmd_get_boot_status

The function returns a boot status.

Each bit of the value returned by the function represents an internal component of the reader. If the component of the reader could not be initialized the corresponding bit is set. Check the value of "boot_status" for the value "0" and output an error or a warning if the values do not match.

Function call

```
int syscmd_get_boot_status(
    int Handle,
    dword * boot_status,
    int * Status
);
```

Description of the parameters

Parameter	Description
syscmd_get_boot_status	The parameter returns a boot status value.
Handle	The session key returned by the function "brp_open_usb_session()".
boot_status	Each bit represents an internal component of the reader.
Status	You will find more information on the reader status in the section "Status codes (Page 19)".
Return value	You will find more information on return values in the section "Return values (Page 18)".

Note

Value of boot status not equal to "0"

If the function returns a value not equal to "0", please contact "Service & Support (Page 29)".

4.1.6 syscmd_set_port

You can use this function to assign parameters to the LEDs of the reader.

This function switches the LEDs of the module. With the parameters "port-mask" and "Status" you can assign the different reader statuses one of the 3 LED colors. You will find a list of possible LED colors in the following table.

Function call

```
int
syscmd_set_port(
    int Handle,
    word port_mask,
    int * Status
);
```

Description of the parameters

Parameter	Description
syscmd_set_port	The parameter sets the LED of the reader.
Handle	The session key returned by the function "brp_open_usb_session()".
port_mask	Each value of the parameter is assigned to a certain LED color.
Status	You will find more information on the reader status in the section "Status codes (Page 19)".
Return value	<ul style="list-style-type: none"> BRP_OK You will find more information on return values in the section "Return values (Page 18)".

Table 4- 1 Values of the "port_mask" parameter

Value	LED color
0x0000	□ Off
0x0001	■ Green
0x0002	■ Red
0x0003	■ Orange

4.1.7 vhl_select

With this function you select a card located in the antenna field. If successful, the status "OK" is returned.

The type of the selected card is returned in the parameter "CardType". Note that specification of the card type is achieved with the serial number, the length of the serial number and other information specified at the time of the selection phase. Since there is no guarantee that the serial number is unique, the card type is also not necessarily correct.

If there are several cards in the antenna field of the reader, they are processed by the function "VHLSelect". Whenever "VHLSelect" is called, the currently selected card is changed to the "Hold mode" and the next card is selected. Once all cards have been processed, "VHLSelect" returns the value "NOTAG_ERR". If you remove a card from the antenna field and put it in again, "VHLSelect" will select the card again. If you want to select cards again without removing them physically from the antenna field, you need to set the "Reselect" parameter to "TRUE".

The "CardTypeMask" parameter allows only specific card families to be selected. If you want to select all cards supported by the hardware of the reader, you need to set the parameter to "0xFFFF". The more significant half byte specifies the card family (1-6) while the less significant half byte (X) refers to the recognized card type.

Table 4- 2 The different card types and their representation

CardTypeMask	CardType	Card family
0x0001 (bit 1)	0x1X	ISO 14443 A / mifare
0x0002 (bit 2)	0x2X	Reserved
0x0004 (bit 3)	0x3X	ISO 15693
0x0008 (bit 4)	0x4X	ISO 14443 B
0x0010 (bit 5)	0x5X	Reserved
0x0020 (bit 6)	0x6X	Reserved

Function call

```
int
vhl_select(
    int Handle,
    word CardTypeMask,
    bool Reselect,
    bool AllowConfig,
    byte * CardType,
    int * Status
);
```


Description of the parameters

Parameter	Description
vhl_select	With this parameter you select a card located in the antenna field.
Handle	The session key returned by the function "brp_open_usb_session()".
CardTypeMask	The parameter specifies a card family to be recognized. If you want all card families to be recognized, set the parameter to the value "0xFFFF".
Reselect	The parameter decides whether the card should be reselected.
AllowConfig	This value is always "false".
CardType	The returned value indicates the card type.
Status	You will find more information on the reader status in the section "Status codes (Page 19)".
Return value	<ul style="list-style-type: none"> BRP_OK You will find more information on return values in the section "Return values (Page 18)".

4.1.8 vhl_get_snr

The function returns the serial number of the currently selected card. If the function "vhl_select" could not be executed earlier or the card is no longer in the field, the value "CARD_NOT_SELECTED_ERR" (Status-Code "0x0102") is returned. In this case, an undefined serial number is returned.

Function call

```
int
vhl_get_snr(
    int Handle,
    byte * Snr,
    byte * Length,
    int * Status
);
```

Description of the parameters

Parameter	Description
vhl_get_snr	The parameter returns the serial number of the currently selected card.
Handle	The session key returned by the function "brp_open_usb_session()".
Snr	Serial number of the card
Length	Length of the serial number in bytes
Status	You will find more information on the reader status in the section "Status codes (Page 19)".
Return value	<ul style="list-style-type: none"> BRP_OK CARD_NOT_SELECTED_ERR You will find more information on return values in the section "Return values (Page 18)".

4.1.9 vhl_is_selected

This function checks whether the card selected the last time the "vhl_select" function executed is still or once again located in the antenna field. If the card is there, the status "OK" is returned.

Note that this function always returns "CARD_NOT_SELECTED_ERR" when a card is shown a card without the "vhl_select" function being executed first.

Function call

```
int
vhl_is_selected(
    int Handle,
    int * Status
);
```

Description of the parameters

Parameter	Description
vhl_is_selected	This parameter checks whether the card selected the last time the "vhl_select" function executed is still or once again located in the antenna field.
Handle	The session key returned by the function "brp_open_usb_session()".
Status	You will find more information on the reader status in the section "Status codes (Page 19)".
Return value	<ul style="list-style-type: none"> BRP_OK You will find more information on return values in the section "Return values (Page 18)".

4.1.10 Return values

The following table contains a list of the possible values that the reader can return for the various functions.

Value	Variable	Description
0x00	BRP_OK	No error has occurred
0x01	BRP_ERR_STATUS	The reader has returned a status code that is ≠ "0".
0x02	BRP_ERR_BUSY	The reader is currently processing a function.
0x03	BRP_ERR_IDLE	The reader is waiting for a function.
0x04	BRP_ERR_TIMEOUT	The response time has been exceeded.
0x05	BRP_ERR_CORRUPTED_FRAME	A bad frame was detected.
0x06	BRP_ERR_UNEXPECTED_FRAME	An unexpected frame was detected.
0x07	BRP_ERR_GENERAL_IO	The underlying serial port has caused an error.
0x08	BRP_ERR_BUFFER_OVERFLOW	The reader sent more data than expected.
0x09	BRP_ERR_NO_MORE_HANDLES	There is no free session key.

Value	Variable	Description
0x0A	BRP_ERR_INSUFFICIENT_MEM	There is not enough memory to generate a new session key.
0x0B	BRP_ERR_WRONG_HANDLE	The specified session key does not exist.
0x0C	BRP_ERR_WRONG_PARAMETERS	The parameters of a function are incorrect.

4.1.11 Status codes

The following table contains a list of the status codes of the VHL command set.

Value	Variable	Description
0x0000	BRP_OK	No error
0x0101	NOTAG_ERR	Transponder does not exist or no response. This status code requires reselection of the card with the function "vhl_select".
0x0102	CARD_NOT_SELECTED_ERR	The function cannot be executed because no transponder is selected.
0x0103	HF_ERR	Communications problems with the transponder.
0x0104	CONFIG_ERR	This value is currently not supported.
0x0105	AUTH_ERR	This value is currently not supported.
0x0106	READ_ERR	The communications sequence is successful, but reading failed.
0x0107	WRITE_ERR	This value is currently not supported.
0x0108	CONFCARD_READ	A transponder was recognized.
0x0109	INVALID_CARD_FAMILY_ERR	The required transponder type does not match the transponder family of the currently selected transponder.
0x010A	NOT_SUPPORTED_ERR	This value is currently not supported.
0x010B	VHL_FORMAT_ERR	This value is currently not supported.

Most of the status codes listed in the table above do not require reselection of the transponder. The only status code that deviates from this rule is "NOTAG_ERR" This requires reselection of the transponder by the application.

The functions are constructed so that if execution fails, they are automatically repeated. This compensates any communications problems that may occur, e.g. due to bad RF signal quality as a result of external influences.

4.2 The demo application

The demo application contained in the file "RF1060R" helps you to understand the available functions.

The available software package contains a demo application based on Windows .NET 3.5 including source code files. This demo application serves as a model on the basis of which you can program your own user application. The demo application includes all the functions described in the following sections and is fully functional. This gives you the opportunity of testing your readers directly using the demo application.

Note

Disclaimer of liability

Note that Siemens AG accepts no liability for the demo application.

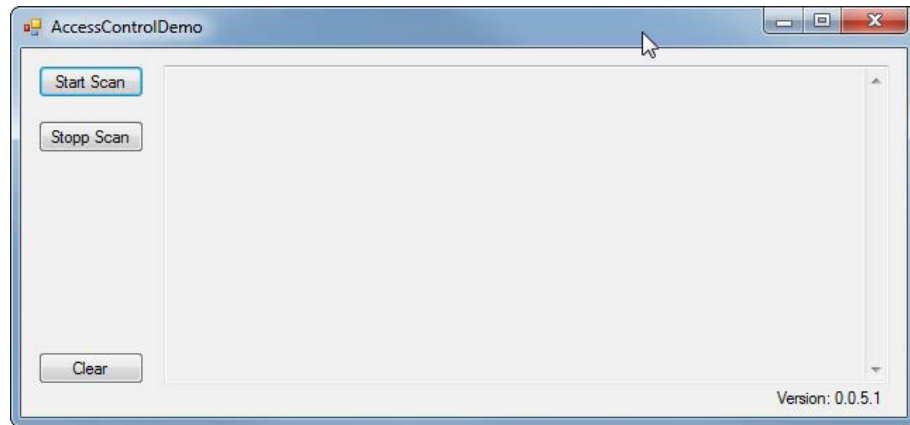
4.2.1 User interface of the demo application

Requirement

To be able to work with the demo application, .NET 3.5 must be installed on your PC and the "RF1060R.exe" file needs to be installed on your PC.

Working with the demo application

1. Start the demo application by double-clicking on the file "AccessControlDemo.exe".



- Start Scan Start to scan. The demo program searches for readable transponders in the antenna field.
- Stopp Scan Stop scanning.
- Clear Clear the display window.

Figure 4-1 Start window of the demo application

The demo application has 3 buttons and a display area.

The version number of the demo application is shown at the bottom right in the application.

2. Start scanning by clicking the "Start Scan" button.

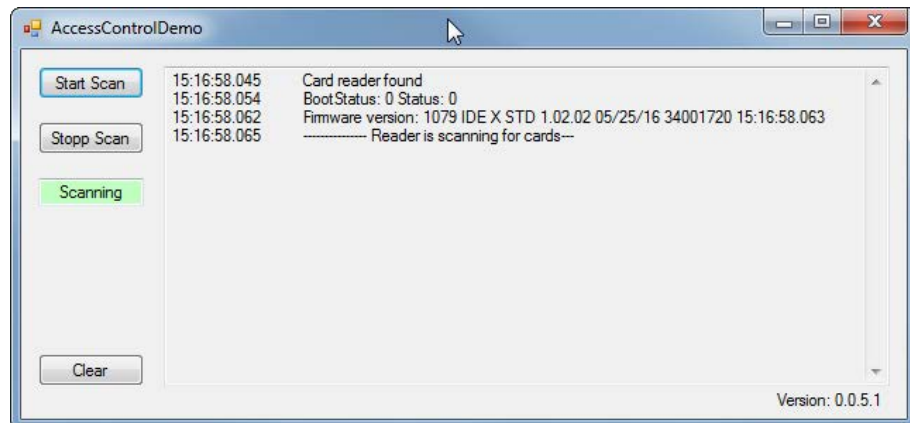


Figure 4-2 Sample view of a scan

The acquired data is displayed in the display area.

3. To clear the display area click the Clear button.
4. To stop scanning, click the "Stopp Scan" button.

4.2.2 Creating your own application

Requirement

- You have installed the DLL file and the demo application.
- The reader is connected.

Note that the demo application is capable of running without Microsoft Visual Studio (Express) being installed. You can view the source code with a text editor. To edit the source code you require Microsoft Visual Studio (Express) on your PC.

Creating your own application

Follow the steps below to create your own application:

1. Establish the connection to the reader ("brp_open_usb_session").
2. Check cyclically whether a transponder is located in the read range of the reader ("vhl_select").

There is transponder in the read range:

- The transponder is recognized.
- Read out the serial number ("vhl_get_snr").
- Signal the application that the transponder with the serial number "x" was recognized.
- Check cyclically whether the transponder is still in the read range.

The transponder is no longer within the read range:

- Signal the application that the transponder with the serial number "x" is no longer recognized.

3. Terminate the connection to the reader ("brp_close_session").

The source code of the demo application can serve as an example for your own application.

Technical specifications

Table 5- 1 Technical specifications

6GT2831-6AA50	
Product type designation	RF1060R
Radio frequency	
Operating frequency	13.56 MHz
Electrical data	
Maximum range	30 mm
Maximum transmission speed reader ↔ transponder	
• Reading	• approx. 1.5 KBps
Mechanical specifications	
Housing	
• Material	• PC-GF
• Color	• TI-Gray
Interfaces	
Interface to the communication module	USB 2.0
Antenna	integrated
Supply voltage, current consumption, power loss	
Power supply	5 VDC via USB
Current consumption	typically 150 mA; max. 300 mA
Permitted ambient conditions	
Ambient temperature	
• During operation	• -25 to +55 °C
• During transportation and storage	• -25 to +55 °C
Degree of protection to EN 60529	In the installed status: on the front IP65; on the rear IP20
Shock-resistant to EN 60721-3-7, Class 7 M2	300 m/s ²
Vibration-resistant to EN 60721-3-7, Class 7 M2	50 m/s ²

6GT2831-6AA50	
Design, dimensions and weights	
Dimensions (W × H × D)	
• excl. card holder	• 90 × 62 × 23.5 mm
• Incl. card holder	• 99 × 62 × 34.6 mm
Weight	approx. 120 g
Type of mounting	Door installation, 4 x stud screws (slotted screws) M4 x 20; Tightening torque ≤ 0.5 Nm; 4 x Torx screws (EJOT) T10 x 10; Tightening torque ≤ 1.5 Nm; Installation wall thickness maximum 7 mm
Cable length reader ↔ communications module	1.8 m USB connecting cable
Display elements	3 color LED display
Approvals	CE / FCC / IC
MTBF	28 years

Dimension drawing

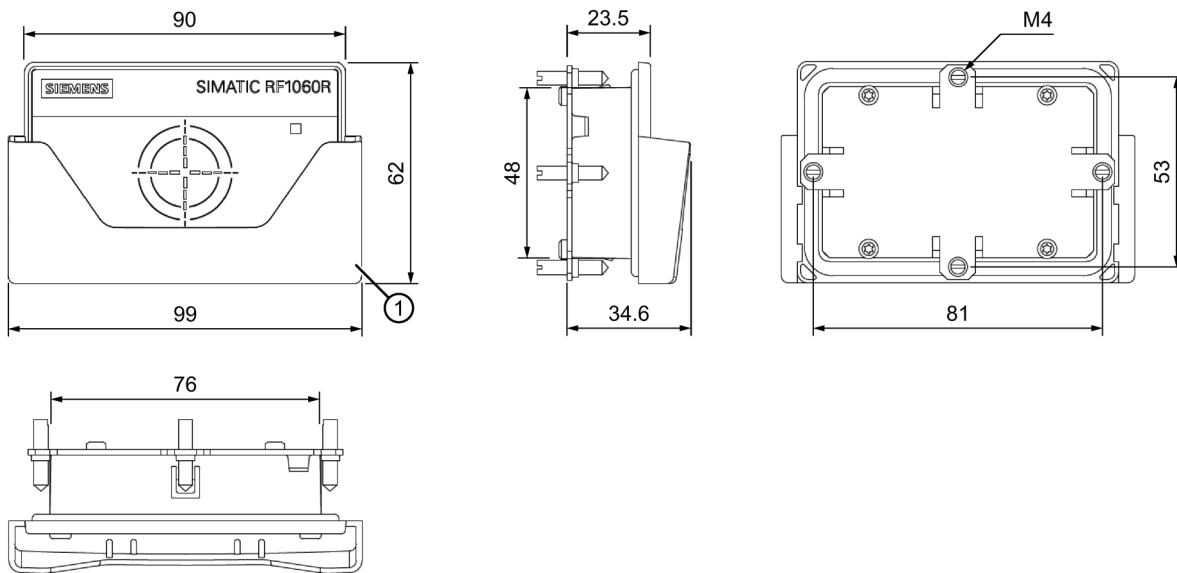




Figure 6-1 Dimension drawing RF1060R with optional card holder ①




All dimensions in mm

Appendix

A.1 Certificates & approvals

Table A- 1 Country-specific approvals

Labeling	Description
	CE according to RED directive 2014/53/EU CE according to RoHS directive 2011/65/EU
 Federal Communications Commission	<p>1) Part 15 Clause 15.105:</p> <p>"Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help." <p>2) Statement for Part 15 Clause 15.21:</p> <p>"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."</p> <p>3) Statement for FCC Part 15.19:</p> <p>"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:</p> <ul style="list-style-type: none"> • (1) This device may not cause harmful interference, and • (2) this device must accept any interference received, including interference that may cause undesired operation."

Labeling	Description
Industry Canada Radio Standards Specifications	<p>CAN ICES-3 (B)/NMB-3(B)</p> <p>This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:</p> <ul style="list-style-type: none"> 1) This device may not cause interference; and 2) This device must accept any interference, including interference that may cause undesired operation of the device. <p>Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :</p> <ul style="list-style-type: none"> 1) l'appareil ne doit pas produire de brouillage; 2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
	Russia, Belarus and Kazakhstan
	Brazil (ANATEL)
Mexico (IFETEL)	Mexico (IFETEL) RCPSIRF16-2053
China (CMIIT)	China (CMIIT) CMIIT ID: 2016DJ7412
	South Korea (KCC) MSP-CRM-RF5-RF1060R

A.2 Ordering data

Table A- 2 Ordering data RF1060R

Product	Article number
SIMATIC RF1060R	6GT2831-6AA50

Table A- 3 Ordering data accessories

Product	Article number
Card holder for RF1060R	6GT2890-0CA00
Optional USB connecting cable	0.5 m 6GT2891-0UE50

A.3 Service & Support

Industry Online Support

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

Link 1: (<https://support.industry.siemens.com/cs/de/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:
Link 2: (<https://support.industry.siemens.com/My/ww/en/requests>)
- 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:

Link 3: (http://w3.siemens.com/aspa_app)

RFID homepage

For general information about our identification systems, visit RFID home page (<http://w3.siemens.com/mcms/identification-systems/>).

Online catalog and ordering system

The online catalog and the online ordering system can also be found on the Industry Mall home page (<https://mall.industry.siemens.com>).

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:

Link: (<http://sitrain.automation.siemens.com/sitrainworld/>)

