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sehr geehrter Kunde,**

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Le agradecemos que haya adquirido este producto Siemens y esperamos que siga satisfecho con su compra. Si se diese el caso de que su producto Siemens requiriese al servicio de garantía, póngase en contacto con su distribuidor o con un representante de nuestra red de servicio autorizado. En caso de consultas técnicas, dirijase al Servicio al cliente.

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START 

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## Product Informations "TopSec®"

Open the file [start.pdf](#) with the double click. ▶

## Copyright Statement

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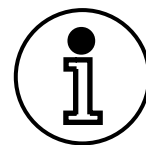
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## Trade Marks

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MS-DOS®  
Windows® 95/98  
Windows® NT 4.0  
Windows® 2000  
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TopSec® is a registered trade mark of Siemens AG.

# TopSec®



## Applications

"TopSec 701" serves to protect the transmission of any electronic data from access by third parties in public communications networks. Example: Safe transmission of confidential information to mobile employees.

## Remote Devices

Mobile phones with integrated modem function.  
Terminal adapter with V.110 support.  
Analogue modems (no connection to TopSec ISDN devices).

## Product Description

The "TopSec 701" provides a mobile employee with secure access to data in the head office. It has been implemented as a PCMCIA card and behaves like a modem card. All information transmitted via the "TopSec 701" can be encrypted. A modem has not been integrated into the "TopSec 701" but rather is connected externally. This provides the greatest flexibility since any modem can be connected to the serial port. Mobile telephones which contain modem functionality can be connected through the infrared (IrDA) interface.

When using devices from the TopSec family, data which is to be transmitted between two TopSec devices over a public network can be encrypted. Therefore between two TopSec 701 devices any data can be exchanged in an encrypted form as long as the connecting modems can communicate with each other. In addition it is possible to exchange data between "TopSec 701" devices and TopSec devices in an ISDN network (TopSec 703/730). Top Sec ISDN devices support V.110 protocol for adapting the data rate of the modem connected to the "TopSec 701".

## Operating

In the factory the devices are configured so that they can communicate in a so-called public user group. The "TopSec 701" can be operated encrypted or unencrypted. The type of operation is chosen by a mode number which is prefixed onto the telephone number of the remote end when dialing. Additional security is provided by the administration of a TopSec device. The device is given an individual certificate from the administrator site (accessory). The device checks the certificate from the remote site after a connection has been established. In this way closed systems can be established. Issuing certificates and assigning rights is done by the customer from the administrator site.

## Encryption

TopSec devices work according to public key procedures. This makes key management easier for the user. The user data is encrypted using a symmetrical algorithm according to a procedure developed by Siemens. This algorithm uses a 128 bit key. Both partner devices need the same key for this procedure. This is achieved by Diffie Hellmann key negotiation procedures using random numbers. The Diffie Hellmann procedure works with TopSec devices using a 1024 bit key. After the symmetric key's period of use is over, the key is deleted and re-created at the next connection. An authentication is additionally carried out for administration devices. This is done according to the RSA procedure. This procedure also uses a 1024 bit key.

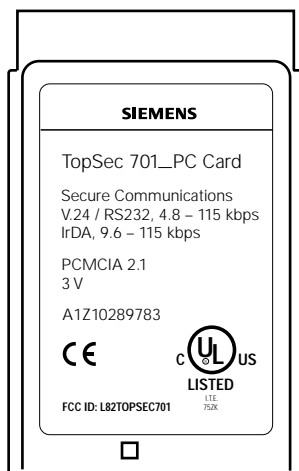
# Technical Data

## Secure Communications

This product was successfully tested for electrical safety and electromagnetic compatibility by the following organizations.

## Description and Dimensions

<b>TopSec 701, PC Card (PCMCIA 2.1)</b>	Typ II card (5mm)
<b>Dimensions</b>	L x B x H : 85,6 mm x 54,0 mm x 5,0 mm



## Encryption

Symmetrical user data encryption with 128 bit key.  
Asymmetrical key negotiation according to Diffie Hellmann with 1024 bit key.  
Authentication according to RSA with 1024 bit key.

## Environmental Conditions

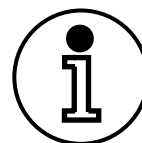
Condition	Temperature of Environment	Relative Humidity
In operation	0°C to +60° C	20% to 85%
Storage out of operation	-20°C to +70° C	10% to 90%
Transport in appropriate packaging	-25°C to +60°C	10% to 98%

## System Requirements

Operating Systems:

Windows 95/98  
Windows NT 4.0  
Windows 2000

Pentium processor (166 MHz or higher recommended)  
Adobe Acrobat Reader 4.0 (on CD-ROM)



## Electrical Requirements

<b>Power supply</b>	3.3 V
<b>Serial interface</b>	V.24 / RS232, 4,8 -- 115 kbps
<b>Infrared interface</b>	IrDA, 9.6 -- 115 kbps (range ca. 30 cm)

## Certifications

<b>CE</b>	93/68/EEC 89/336/EEC EN 50082-1 EN 55022 class B	EU guideline for CE classification Electromagnetic compatibility (EMC) Basic specification, interference immunity Radio noise characteristics / Information-technology systems
<b>UL CSA DEMCO</b>	EN 61000-4-2 EN 60721-3-7 EN 60721-3-3 EN 60721-3-1 EN 60721-3-2	ESD (enhanced requirements) Vibration Operating temperature Storage temperature Transport conditions (in appropriate packaging)
<b>FCC</b>	FCC ID: L82TOPSEC701	

## Original Accessory

Modem Cable

Order number:  
[A5B00100019876](#)

## Typographical Conventions



In this manual the following typographical conventions are used:

A notification flagged by a warning symbol means that if you ignore it your health, the functioning of your PC Card or the security of your data is endangered.



Information symbol indicates additional information and tips.

▶ Indicates a step that you must carry out.

**Bold text** Represents steps, explanations and onscreen directions (buttons) in the displayed screenshots.

*Italics text* Indicates commands, menu items or the page index (bottom right next to page number).

Underlined text oder ▶  
Indicate a "Link" you can click on.

## Safety Precautions

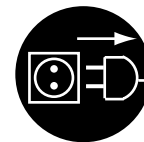


Observe the safety precautions pertaining to the usage of your PC Card.

The system requirements must be checked and filled.

Before operating the PC Card observe the information pertaining to environmental requirements in the [Technical Data](#) chapter.

When using the product, pay attention to the notes in the [Installation](#) and [Configuration](#) chapters.



Remove the power plug from all affected devices if you connect or disconnect a device. During an electrical storm you should neither plug-in nor unplug the cables.



This PCMCIA card fulfills the requirements of the EU guideline 89/336/EEC "electromagnetic compatibility".



This product is tested and approved for the UL and C-UL classification according to the US guidelines and Canadian guidelines.  
Reference-No.: File E208121, Project 00SC03443,  
Control number: 75ZK, Product Identity: I.T.E.

FCC ID: L82TOPSEC701

## FCC Compliance Statement

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### FCC ID: L82TOPSEC701 Information to the User

#### NOTE:

This equipment has been tested and found to comply with the limits for a class B digital peripheral, pursuant to Part 15 of the FCC Rules and meets all requirements of the Canadian Interference-Causing Equipment Regulations. 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 on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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/T.V. technician for help

Change or modifications not expressly approved by **Siemens Aktiengesellschaft** could void authority to operate the equipment.

If necessary, the user should contact the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission helpful:  
"How to Identify and Resolve Radio-TV Interference Problems."  
This booklet is available from the US. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.