



Optiset E privacy module

For confidential telephone calls

- ◆ High security level
- ◆ High-quality voice encryption
- ◆ Public key method
- ◆ Optimum speech quality in encrypted mode due to automatic matching to the telephone
- ◆ Easy installation and operation
- ◆ Low weight and pocket-size format for mobile use



ROHDE & SCHWARZ

Secure telephone calls

Despite the steadily growing number of communication means, telephone calls remain indispensable in business for reaching quick agreements and decisions.

Many companies are not aware of how easily and unobtrusively eavesdroppers can monitor their telephone calls and thus illegally acquire extremely important information about companies and their projects. As a result, companies can incur substantial financial losses, which may even threaten their very subsistence.

But how can you effectively protect your communication against unauthorized intrusion?

The Optiset E privacy module has been designed to protect confidential telephone calls against eavesdropping.

The only prerequisite is that the called station must also be equipped with an Optiset E privacy module.

Maximum security at a keystroke

The module is connected between the telephone and the handset by simply replugging the cables.

The following telephones are suitable for use with the Optiset E privacy module:

- ◆ All Optiset E telephones and Hicom system telephones from Siemens
- ◆ Common analog/digital system telephones with modular phone plug (4-position RJ22)
- ◆ Common analog/digital telephones with modular phone plug (4-position RJ22) for main access lines

In non-encrypted mode, the privacy module is absolutely passive and transparent so that users can make their calls as usual. Encryption is activated when the single key on the privacy module is pressed by either of the parties to a call. The encrypted mode is indicated by an LED and a display. Administration of the equipment is not required.

The Optiset E privacy module randomly selects a 128-bit key from 10^{38} possible keys for each call. In encrypted mode, a 4-digit number derived from the key is displayed on the privacy modules of both call parties. These numbers must be compared at the very beginning of the encrypted telephone call. If the two numbers agree, it is ensured that

- ◆ there is no eavesdropper with the same device on the line
- ◆ the device has not been replaced unnoticed by a dummy module

Authentication is not used with the privacy module. The called partner can be recognized by voice or asked for personal details. There is no need for trust centers to assign the keys, nor are chip cards required.

Optimum speech quality in encrypted mode is ensured by automatic matching to the impedance of the telephone used.

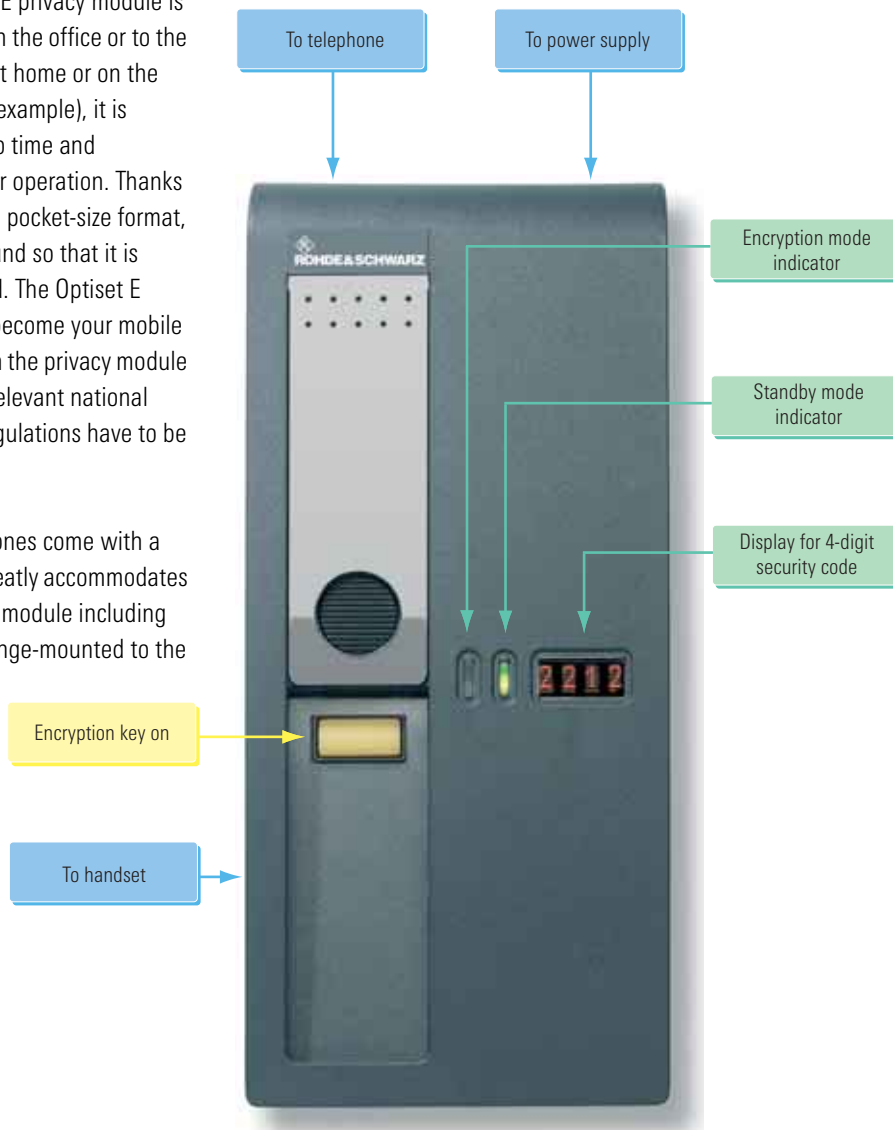
Optiset E privacy module with Optiset E telephone and support tray



Mobile use

Whether the Optiset E privacy module is connected to a PBX in the office or to the public basic access at home or on the move (in a hotel, for example), it is installed in next to no time and immediately ready for operation. Thanks to its low weight and pocket-size format, it can be carried around so that it is always ready to hand. The Optiset E privacy module will become your mobile security guard. When the privacy module is used abroad, the relevant national export and import regulations have to be observed.

The Optiset E telephones come with a support tray which neatly accommodates the Optiset E privacy module including cables; the tray is flange-mounted to the telephone.



Specifications

Power consumption	<4 VA
Voice transmission (MRCELP vocoder)	encrypted/non-encrypted
Transmission rate	4800/9600 bit/s
Encryption	public key method according to Diffie-Hellmann (1024 bit), user data encryption (128 bit)
Dimensions (H x W x D)	39 mm x 92 mm x 200 mm
Weight	approx. 300 g

Ordering information

Optiset E privacy module (incl. plug-in power supply, telephone connecting cable, and support tray for integration in Optiset E telephones)	Europe	3531.6704
	UK	3531.6627
	USA	3531.6633
	Australia	3531.6679
Travel set for Optiset E privacy module (optional)		3531.6685

