



Security in the private sector has become more of an issue over the last couple of years. Most companies will safeguard their data, by physically locking rooms, desks and file cabinets and also by making back-ups and using virus- and spyware scanners and firewalls.

However, while taking all these measures, most of the time no actions are taken to protect communications. Telephony still is one of the most important, if not the most important, means of communication. Proprietary and confidential information is actually gathered by tapping wires and listening in on telephone conversations.

To be absolutely safe, there is only one reliable way to secure your phone line. This is by ciphering voice and/or data from one end to the other end, without intervention of third parties and in such a way that third parties will not be able to break the code.

PhoneSec B.V. in the Netherlands has developed a device called the VD100. The VD100 is a 'crypto box' that can be used to cipher both voice and data communication. Using a superior crypto algorithm, together with large keys and the flexibility and strength of SmartCard key management, the VD100 is virtually not decipherable by any organization.

Now PhoneSec will provide your company with the highest level of

PROTECTION AGAINST

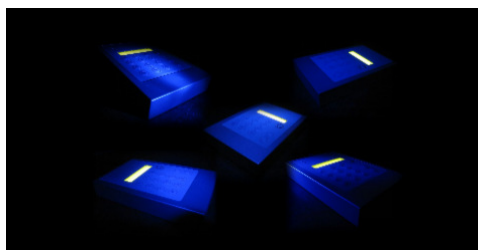
- Loss of unique company intelligence
- Costly production disturbances
- Loss of customers, partners and valuable contracts
- Loss of your competitive edge



The VD100 is equipped with a keyboard, a display, a SmartCard reader and a number of connections on the back. It is simply plugged between the phone and the line and is powered by an adapter. When installed, the phone can be used as normally, making and answering any regular call, without the need of having a VD100 on the other side.

If a secure call is desired, all that is needed is a push on the crypto button. In that case, it is required to have a VD100 on the other end of the line. Once the crypto button is pushed, the display will show exactly what steps the user has to take. These simple steps include the insertion of the SmartCard into the VD100 and entering a PIN code. Once the line is secure, this is indicated by a green light and by a message on the display. Ending a secure call is done by just hanging up the phone.

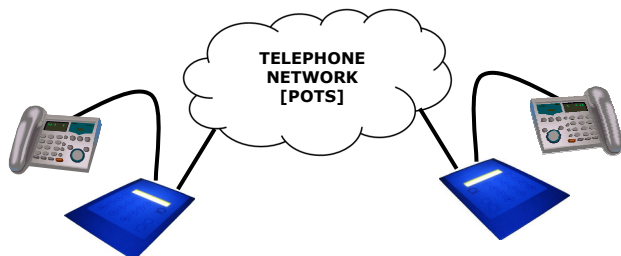
Some of the most important features, differentiating the VD100 from the competition, are :



MAIN FEATURES

- Highest level of security
- NO back door
- Superior voice quality
- Simple to install and easy to use
- Handles both voice and data
- Low cost

The VD100 is simply put between the line and the phone, as illustrated in the figure below. All required cabling, as well as the adapter, SmartCard, User Manual and a Quick Reference Card, are supplied together with the VD100.



VD100 ADVANTAGES

- NO back door
- Integrated key management with SmartCard key distribution
 - NO TTP (Trusted Third Party) needed
 - NO additional equipment needed
- Easy data connection to the PC
 - Hayes compatible modem
 - Self synchronizing system
- Easy switching between secure and bypass modes

This all makes the VD100 one of the most versatile and certainly the most secure voice & data cipher on the market today. With it's low price it offers the best value for money, without compromising security.

TECHNICAL SPECIFICATIONS

CRYPTO

Algorithm	PAC© (proprietary)
Algorithm size	134 bits
Key length	208 bits

KEY MANAGEMENT

Generation	True random generator
Distribution	Tamperproof smartcards

VOICE COMPRESSION

Algorithm	Truespeech
Bit rates	5.3, 6.3 & 8.0 kbps
MOS (Mean Opinion Score)	3.9

INTERNAL MODEM

Max. Speed	33k6 bps
Command Set	Hayes AT compatible

USER INTERFACE

Display	2 x 20 characters with backlight
Keyboard	15 key membrane keyboard

INDICATORS

Secure	Green LED
Non-Secure	Red LED & buzzer

CONNECTIONS

Line	RJ11
Phone	RJ11
DTE (Computer)	9 pin sub-D
Power	DC 5.5 x 2.1 mm

GENERAL

Power supply	Adaptor, 18V DC
Power consumption	± 6.5W active & ± 4.5W stand-by
Dimensions	± 230 * 145 * 40 mm
Weight	Approx. 1400 gr.

DEALER

