



## Crypto Field Terminal HC-6830

**If you rely on optimum support backed up by information and data for the effective management of your organisation or of your field teams, you will no doubt have thought about the question of 'messaging systems'. However, if you have not yet made a procurement decision, the reason may be that you are interested in a system that offers flexibility, mobility and very simple operation – without prior knowledge.**

One of your key requirements may be that a messaging system should be able to function in different communications networks – a uniform solution would greatly increase the cost-effectiveness of such a system. But quite definitely, you do not wish to compromise in any way when it comes to information security. You can now get such a complete system in the form of the Crypto Field Terminal HC-6830, as a ruggedised laptop.

This cost-effective messaging system you can practically start up in a plug-and-play process. Operating it is just as simple: The user finds a familiar interface similar to Windows. With just a few clicks, secure text processing, file management, sending and receiving of information (e.g. any amount of data, graphics, images or texts as attachment) can all be done with practically no prior knowledge. You can use the system for HF, VHF or UHF radio communication because the appropriate modems and the transmission protocols for most applications are available. Moreover, an analogue telephone modem is already built in.

The security of your information is thus always guaranteed: You profile your own, secret algorithm for encryption in the mechanically and electrically protected hardware security module. Not only your mes-

saging communication, but also your data on the hard disk are totally secure against unauthorised access and against viruses/spamming. The HC-6830 is no ordinary laptop. It is a unit housed safely in a robust case, geared to high operating security which is greatly protected against damp, cold, heat, vibrations or knocks. The integrated security management system for key management is as simple to operate and handle as is the product design itself.

### Key features

- Cost-effective complete system for fault-free and secure messaging communication via HF/VHF/UHF radio networks and telephone lines
- The system can be started up and become operational with practically no prior knowledge while being secure against misuse
- Extremely simple, menu-driven operation and administration on a Windows-like user interface
- Robust laptop with colour screen in sealed, weatherproof magnesium case
- Any number of attachments (text, images, data, graphics) can be sent with the messages
- The highest degree of protection thanks to secret, user-profiled algorithm and separate keys for management and payload
- Hierarchical and overlapping crypto groups
- Security data and incoming/outgoing messaging data are stored encrypted on the hard disk – misuse is impossible

## General data

### Base version

- Secure field communication terminal with communication application
- English, French, Spanish version

### Features

- Create messages with enhanced text formatting and attachments
- Read and print messages
- Forward or reply to received messages
- Configuration of the application, security and key management
- Communication and local encryption
- Secure, fast transmission on telephone lines (PSTN network) (CTR 21)
- Secure, error-free data communication over HF/VHF/UHF radios (optional)
- Number of attached files and size of message text are not limited by software
- Full protection against all kind of electronic attacks, including hackers, viruses etc.

### Casing/chassis

- Sealed and weather-proof die-cast magnesium casing/chassis

### Monitor

- 13.3" colour TFT

### Keyboard

- Splash-proof keyboard with click feeling

### Trackpad

- Splash-proof

### Floppy drive

- 3.5", 1.44 MB

### Telecommunication interfaces

- Built-in telephone modem for PSTN (33.6 kbps, V.34)

### Power supply

- DC input 19 V dc

### Dimensions

- 312 x 62.5 x 246 mm W/H/D

### Weight

- 4.9 kg (incl. battery)

### Quality system

- ISO 9001:2000

### Conformity

- CE

### Safety

- EN 60950

### EMC

- EN 55022 / EN 55024

## Cryptographic data

### Algorithm

- HCA-420 customer unique proprietary, symmetric algorithm
- Built-in high-quality true random generator

### Key variety

Cryptological parameters:

- Master communication key variety  $>10^{37}$
- Communication key variety  $>10^{37}$
- Storage key for disk encryption, variety  $>10^{37}$

### Algorithm profiling

- Customisation by CMP: variety  $>10^{38}$

### Key memory

- 100 Communication keys in the tamper-proof security module

### Key management

- Multi level key hierarchy
- Manual key input via keyboard
- Key and configuration distribution with the security module

### Access protection

- Tamper-proof security module
- Password protection

## Environmental data

(MIL-STD-810F)

### Reliability

- MTBF: 50,000 hrs

### Environment

- Operating temperature: 0 °C...+50 °C
- Storage temperature: -20 °C...+70 °C
- Humidity: max. 60 °C/95 % RH, Meth.507.3 Proc.III
- Altitude operating: <15,000 ft
- Salt fog: 5 % salt solution at 35 °C, 48 hrs
- Enclosure class: IP 54 (IEC 529)
- Shock (operating): 25 g, 6 ms (IEC 68-2-29)
- Vibration (operating): random, 10 ... 500 Hz 1,04 g RMS Meth. 514.4, cat. I (Basic transportation)
- Drop: 75 cm

### EMC

- MIL-STD 461E

## Accessories/options

### Accessories

- AC adaptor 100...240 V ac
- Rechargeable battery pack (Li-Ion)
- DC adaptor 10...32 V dc
- Mounting kit
- Carrying bag/field carrying bag
- External printer and accessories

### Options

- Built-in HF/VHF/UHF radio modem for ARQ and FEC operation
- Arabic version

### On request

- Satellite interface or GPS-Receiver
- LAN or X.25 interface
- GSM or ISDN interface

## Crypto Field Terminal

