



Crypto Ruggedised Workstation HC-6835

To process and transmit data under field conditions, from vehicles or ships, you need a computer which is appropriately robust and easy to use. When sensitive data and information is added to the mix, the confidentiality, authenticity and integrity of these data must be preserved no matter what the circumstances. If you are looking for an all-purpose portable work unit capable of fulfilling all these demands, your search is now over. The Crypto Ruggedised Workstation HC-6835, a high-rugged laptop workstation is the perfect choice.

This workstation stands up to even the toughest field conditions. Data and information undergoes high-secure encryption when being saved and sent so you can work at the front with no qualms at all. This computer is unique in its versatility and flexibility. It meets the demanding military standards as regards ambient conditions and mechanical stress. You can use it as a workstation for simple secure processing of texts, data, graphics, images, video sequences, faxes or other information. Your data remain cryptographically protected in the process. You can also send the processed information just as securely, in encrypted form. A phone-modem is integrated into the workstation for this purpose, e.g. for Internet access or for transmitting messages. If you wish to communicate over HF, VHF or UHF radio, an internal radio-modem is available to you as an option. Secure transmission via satellite is also possible. IP-based VPN encryption is yet another feature you can opt for.

The cryptographic Security Architecture from Crypto AG always provides you with a maximum level of protection. Encryption is carried out in a separate tamper-proof hardware encryption module. You make

use of exclusively symmetrical and secret algorithms profiled by your own security manager. Effective access protection with user authentication is another function you can fully rely on. And you can conveniently manage keys straight from your keyboard. A plug-in security unit is used for key distribution – and access protection.

Key features

- Your data are reliably protected at all times thanks to the secure encryption of files, storage media and transmissions
- Integrated messaging application included
- Secure IP-based VPN communication (Virtual Private Network) is available optionally
- Screen work is all carried out using familiar Office applications, so there are no new programs to learn
- Optional modems are available for sending secure, fault-free data transmissions over HF, VHF and UHF radios
- Extremely rugged laptop workstation with magnesium housing and water-tight keyboard, suitable for the toughest field conditions
- Encryption in the tamper-proof security module is done with symmetrical secret algorithms profiled by the user. You are assured the greatest degree of cryptographic protection at all times while working

General data

Base version

- Ruggedised security workstation
- Operating system Windows XP
- Microsoft Office application
- Integrated secure messaging
- English language version

Features

- End-to-end secure E-Mail system (no server required)
- Secure, fast transmission on telephone lines (PSTN network) (CTR21)
- Secure, error-free data communication over HF/VHF/UHF radios (optional)
- Secure transmission on satellite (Thuraya/Inmarsat, GAN, BGAN) and GSM data service (optional)
- No battery required for key storage
- Message encryption
- Fully transparent disk encryption for extended hard disk partitions and floppy disks
- Virtual memory protection
- File encryption

Workstation

- Min. pentium M CPU or better
- Min. 512 MB RAM, min. 60 GB HD or better
- DVD/CD-RW-ROM
- Ethernet 10/100 Mbit/s

Interfaces

- 1x card BUS typ I, 2x serial, 1x parallel, USB, firewire
- VGA, PS/2, KB

Casing/chassis

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

Monitor

- 13.3" colour TFT

Keyboard

- Splash-proof keyboard with click feeling

Trackpad

- Splash-proof

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 >1038

Key memory

- 100 communication keys in the tamper-proof security module

Key management

- Multi level key hierarchy
- Manual key input via keyboard
- Generation of true random key values
- Key distribution with 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
- External battery charger
- Mounting kit
- Carrying bag/field carrying bag
- DVD-RW ROM
- External printer and accessories

Options

- Built-in HF/VHF/UHF radio modem for ARQ and FEC operation
- Arabic version
- VPN encryption
- Security Management Centre SMC-1100 IP VPN

Ruggedised Systems

