

KEF-1

DataDEFENDER FILE ENCRYPTION SYSTEM

Without the KEF-1, one successful attack can be more than enough to totally break your PC security.

A USB Hardware-Based
Software Used to
Encrypt PC File(s).



ELECTRONICS INDUSTRIES LTD.



TYPICAL APPLICATIONS:

- Attaching KEF-encrypted files to e-mail messages.
- Copying KEF-encrypted files to a disk or CD in order to send/ship/mail them.
- Sending KEF-encrypted files via modem or radio link.
- Protecting important files in your PC.

Why do I need the KEF-1 at all?

When using software-only products (e.g. PGP, Microsoft Outlook Express with “SSL 128-bit Strong Encryption”) or any other encryption software (for instance from the internet, free or not) which apparently use the strongest algorithms like AES, RSA, Triple/DES, BlowFish, TwoFish, etc.), the secret-key can be easily manipulated or compromised, either by access of an unauthorized user or by hackers while you surf on the internet (or other types of [shared] networks). Firewalls are always recommended, however even the best firewall cannot block all attacks.

Without the KEF-1, one successful attack can be more than enough to totally break your PC security.**Conclusion:**

Any encryption software without suitable hardware support is defenseless against unauthorized users or hackers. The strongest algorithm possible is a good preventive measure, but once its secret-key has been taken, your system is totally vulnerable to attack.

GENERAL FEATURES:

- Unlike software-only products, which can store their secret-key on the hard-disk only, the secret key cannot be read out of the KEF device by any practical means.
- Every user has its own KEF device with a unique S/N (this is just a serial number, not the key).
- Encryption of the files is done for specific S/N (i.e. for a specific end-user).
- Only the users with a KEF device with this S/N (for which the files were encrypted) will be able to decrypt the encrypted files.
- Key Management is automatically done by a *Quickest unique 1408-bit algorithm*
- Each file is encrypted by AES 256-bit using a different true-random key.

SPECIFICATIONS:

Interface Type	USB (Universal Serial Bus)
Operating Voltage	5V (operated by the USB)
Current Drain	KEF-1: “Low Current USB Device” < 100mA
Encryption Process	AES (Advanced Encryption Standard) 256 bit
Key-Management Size	1408 bit, automatic
Master Code	256 bit, user programmable
Operation Indication	LED
Internal Software Protection	Internal software protection against software malfunction
Storage Temperature	-40° to +80°C
Operating Temperature	-20° to +70°C
Hardware Dimensions	62 x 42 x 10mm excluding the connector
Weight	22g

Specifications are subject to change without prior notice.



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