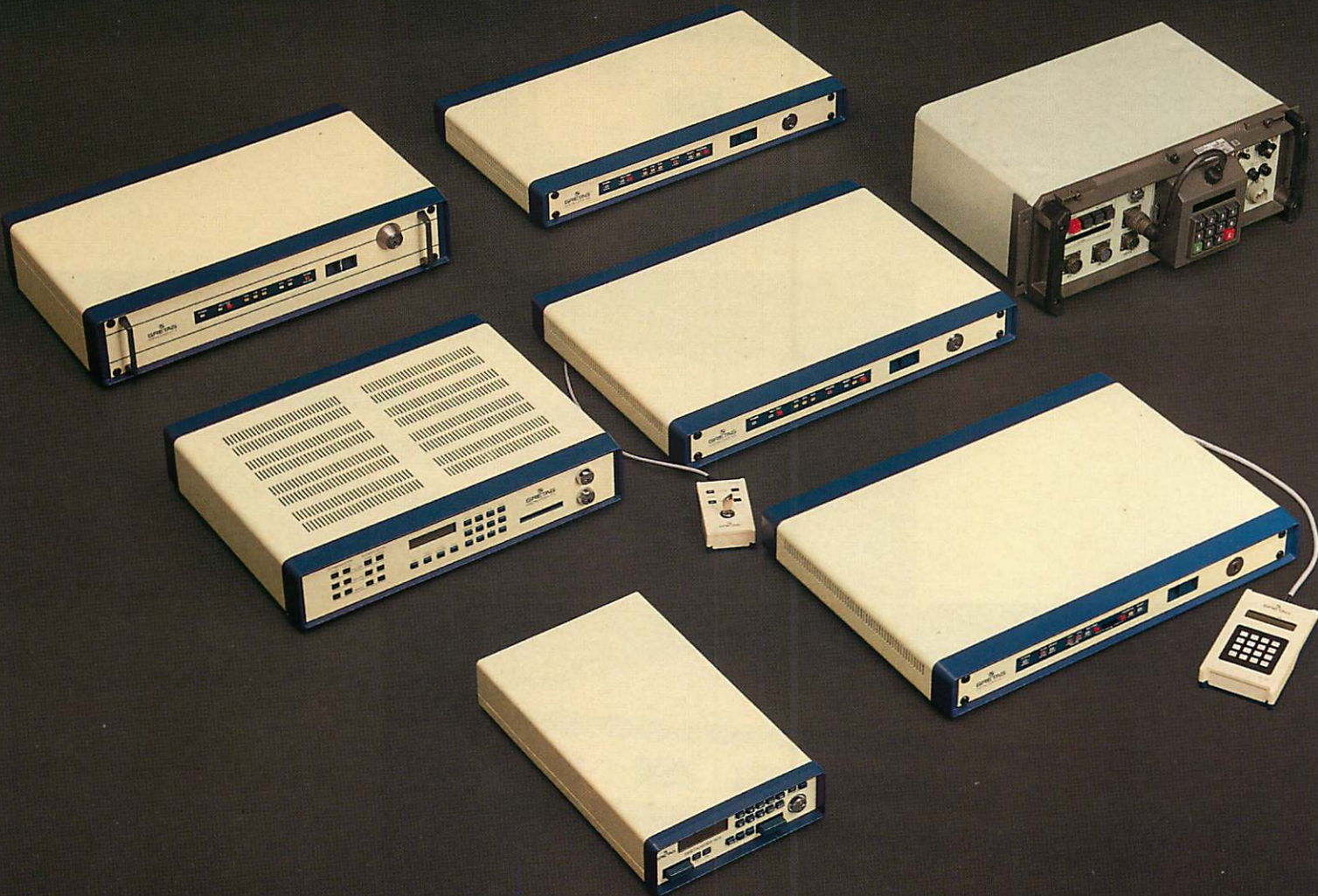


GRETAG **YOUR PARTNER IN** **COMMUNICATIONS SECURITY**

Encryption
Authentication
Identification



GRETACODER® 517
Data Encryption up to 64 kb/s

This flexible data encryption unit is inserted between the modem and the host or terminal on the receive and transmit side. In addition to a fully protocol transparent mode, it also supports various bit- and byte oriented protocols where header information is left clear. It can further be used with X.25 packet switching networks.

Technical Data:

Period of cipher program: 10^{77} Bit
 Recursion length: 4.5×10^{10} Bit
 Data rates: up to 64 kbit/s
 Operating modes: Full-duplex/half-duplex, point-to-point or multipoint
 Interface: CCITT V.24/EIA RS-232-C, V.35
 Key storage: User programmable key plug-in module

Applications:

Data networks where highest security as well as applications flexibility with respect to protocols and interfaces or high speed operation is required.

GRETACODER® 518/Data Encryption

This compact low cost encryption system is ideal for protection of digital data against computer frauds and wire tapping on the line between transmitting and receiving stations.

Technical Data:

Period of cipher program: 10^{86} Bit
 Recursion length: 10^{11} Bit

Data rates: up to 20 kbit/s synchronous
 Operating modes: Full-duplex/half-duplex, point-to-point or multipoint
 Interface: CCITT V.24/EIA RS-232-C
 Protocol: Fully transparent to all communication protocols
 Key storage: User programmable key plug-in module

Applications:

In data networks of banks, insurance companies, oil companies, industries, administrations, hospitals etc. where data security and confidentiality is required.

GRETACODER® 519/Facsimile Encryption

This cipher unit protects Group 3 facsimile machines against unauthorized access of their transmissions. Closed and open user groups are supported.

Technical Data:

Period of cipher program: 10^{86} Bit
 Recursion length: 10^{11} Bit
 Data rates: up to 9.6 kbit/s
 Interface: CCITT V.24/EIA RS-232-C and different special interfaces for most Group 3 facsimile units.
 Key storage: User programmable key plug-in module

Applications:

Important tool in modern office communication to protect confidential facsimile transmission.



GRETACODER® 517

GRETACODER® 518



GRETACODER® 519



GRETACODER® 524
Data Encryption up to 64 kb/s

The GRETACODER 524 represents a new generation of encryption equipment that satisfies the most stringent security requirements. In addition, easy installation and configuration as well as low administration overhead on part of the user were of primary concern.

Technical Data:

Cryptological data: DES (56 bit key) or GRETAG block cipher (128 bit key), self-synchronization (1-bit-cipher-feedback mode)

Data rates: up to 64 kbit/s

Operating modes: Full-duplex/half-duplex point-to-point or multipoint

Interface: CCITT V.24/EIA RS-232-C, RS-422 (V.11), V.35, X.21

Key management: Key storage in user programmable security module, public key exchange

Applications:

Data networks with highest security requirements and minimal ongoing costs for security administration. The manpower, time and travel expenses can be cut drastically by using the public key system.

GRETACODER® 715/Authentication

The GRETACODER 715 is used in electronic fund transfer systems, mainly in the banking world. It provides all required identification, authentication, and message delivery proofs for both the sender and the receiver.

Technical Data:

Data rates: up to 20 kbit/s

Interface: CCITT V.24/EIA RS-232-C. Different protocols such as SNA* and BSC*.

Applications:

Banks and Clearing houses.

* Trademark by IBM

GRETACODER® 603
Data Encryption up to 2.048 Mbit/s

The GRETACODER 603 bulk encryption unit is used to protect high speed links up to 2.048 Mbit/s.

Technical Data:

Period of cipher program: 10^{212} Bit

Recursion length: 10^{18} Bit

Data rates: up to 2.048 Mbit/s

Operating modes: Full-duplex point-to-point operation

Interface: CCITT G 703/G 704 RS 422/V.11

Key input: 64 decimal numbers from key-board

Key storage: Battery buffered RAM

Applications:

Encryption of high speed time division multiplexers, digital telephone exchange systems or video conferencing applications.



GRETACODER® 524

GRETACODER® 715



GRETACODER® 603



Microcomputer Data Security Encryptor 300 and 324

The Encryptor boards provide solutions that address the microcomputer security requirements of data storage and communication. The Encryptor boards are substantially faster than software based systems. The Encryptor 300 is a low-cost encryption device. The Encryptor 324 provides top secrecy. It incorporates a battery-backed storage module that automatically destroys the keys in case of tampering.

Technical Data:

Cryptological data:	DES (56 bit key)
Speed:	The Encryptor permits to encrypt or decrypt 8 bytes in only 28 micro-seconds.
Compatibility:	With IBM PC AT and XT series.
Operating modes:	Private File Security software provides data protection for selected files. AutoCrypt I software provides user transparent disk security.
Key storage:	On-board key storage

Applications:

Solutions for security needs have become increasingly important with the use of hard disks. Unlike floppies, they cannot be removed and locked into a safe, and the cheap locks that exist on some microcomputers are totally insufficient for data protection.

