

Descriptions

Brief description

Cipher Machine
Telex Version

ME 830

Cipher Equipment
to Satisfy
Highest Requirements

Mils Elektronik



MILS ELEKTRONIK
G.m.b.H. & Co. KG

Dorfstrasse 20
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Fax (52 23) 24 77 18
Telex 533009 mils a
DVR 0421707

Brief description

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Telex Version

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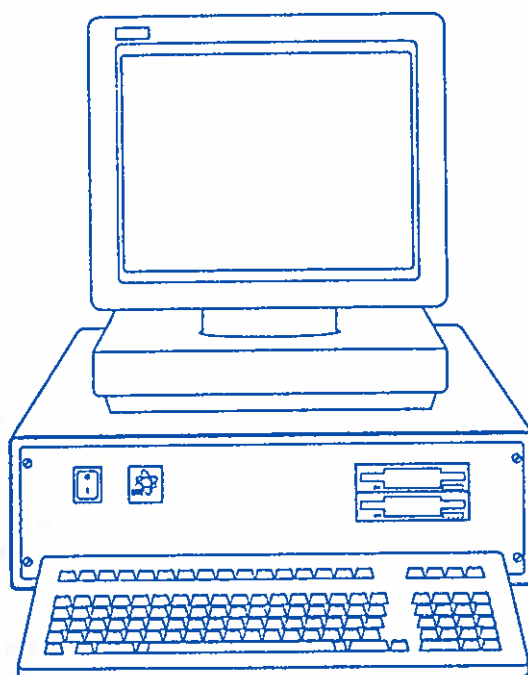
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PRINTER



READER/PUNCHER



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(Telex Version)



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Brief description
Cipher machine for telex, fax and data
ME 830

1. Absolute Security:

The ME 830 unit is designed for fully automatic enciphering / deciphering of messages which are to be sent by telex (on-line or off-line), fax, letter or via any other channel.

The telex cipher unit ME 830 can be upgraded at any time (although subsequently) to a fax cipher unit and/or a data cipher unit. Components already existing do not become obsolete but can be used further with the new function. This upgrade can be done with our modification kit by the customer.

The cipher unit ME 830 can be delivered in a portable version, too.

The main feature distinguishing our unit from cipher units made by other manufacturers is that our unit offers two cipher methods which are completely independent of each other.

Like all cipher units, our ME 830 makes it possible to use an electronic key generator. Developed in the most up-to-date way, this is certain to meet with future demands, too.

Should the top secret nature of a message demand absolute security, our ME 830 provides for the second cipher system on the basis of random keys. The random nature of the key means that unauthorized persons are no longer in a position to break the cipher, no matter what means are employed - these including large computers of the newest technology and the most up-to-date mathematical analysis systems.

This cipher system is known world-wide to experts under the name ONE TIME KEY. There is no doubt as to its 100% reliability.



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2. Greatest Simplicity of Operation:

The second great distinguishing feature is our cipher systems' simplicity of operation in comparison to units of other manufacturers. Even a novice to the field can operate our units error-free after half a day at the most. Special user-friendly programs guide the operator throughout his work. If any doubt arises during operation, it is sufficient to push the "Information Button" and the required information is at once available in the form of easily comprehensible instructions. To make the aid even more efficient the operator guide-lines are in the language of the respective user.

In order to provide for absolutely any eventuality every unit is equipped with an integrated, fully automatic self-diagnosis system:

Whenever the operator wishes, he can automatically start a self-diagnosis routine which comprises all internal functions. In case of error, an error report is issued via the attached printer, informing the operator precisely as to which module is faulty and how it can be replaced.

In order to ensure great flexibility of use for the ME 830 unit it has been developed in such a way that it provides a broad spectrum of all imaginable functions, from which the user is selecting only those required in his organization.

Without the help of the manufacturer the user can thus put together his "own" unit, adapted made-to-measure to existing demands - and if required it can be re-adapted at any time (time required: 30 minutes at most).

Both points (1 and 2) seem so vital to us that we have gone into them in some detail in this brief description.

In order to provide an at-a-glance survey of further remarkable features of our unit we have summarized these briefly under the following heading.



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3. Additional Special Features of the Unit:

- 3.1 Automatic synchronization when transmission errors occur
- 3.2 Automatic deciphering of cipher text that has been transmitted more than once and is much garbled
- 3.3 Automatic management of cipher texts already transmitted
- 3.4 Text correction facility in order to improve input errors
- 3.5 Extreme simplicity of operation guarantees training periods of less than half a day
- 3.6 Protecting measurements in case of power failure
- 3.7 Operator's authorization
- 3.8 Readable preamble on punched tape
- 3.9 Priority of communications to be transmitted
- 3.10 Individual programming of functions
- 3.11 Several interfaces enable future use, too (a cipher machine can operate up to 4 terminals and 2 printers at the same time)
- 3.12 Each unit enables system controls
- 3.13 Every unit has comfortable password management
- 3.14 Precise character insertion of the clear text or the cipher text is no longer necessary
- 3.15 Clear text header



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Finally, we wish to mention that, as well as being run as a stand-alone unit, our ME 830 cipher unit can be used as one component of our SYS 800 cipher system. This concept enables keys to be produced from a noise source, and to be distributed fully automatically in order that they may be used in absolute safety in the cipher unit. Throughout this chain of organizational steps the key is protected by a special process so that even the copy of a key does not mean access to the plaintext for an illegal user.

On request we shall be pleased to send you further information regarding our ME 830 cipher unit. Your enquiry will be welcomed.

Enclosure

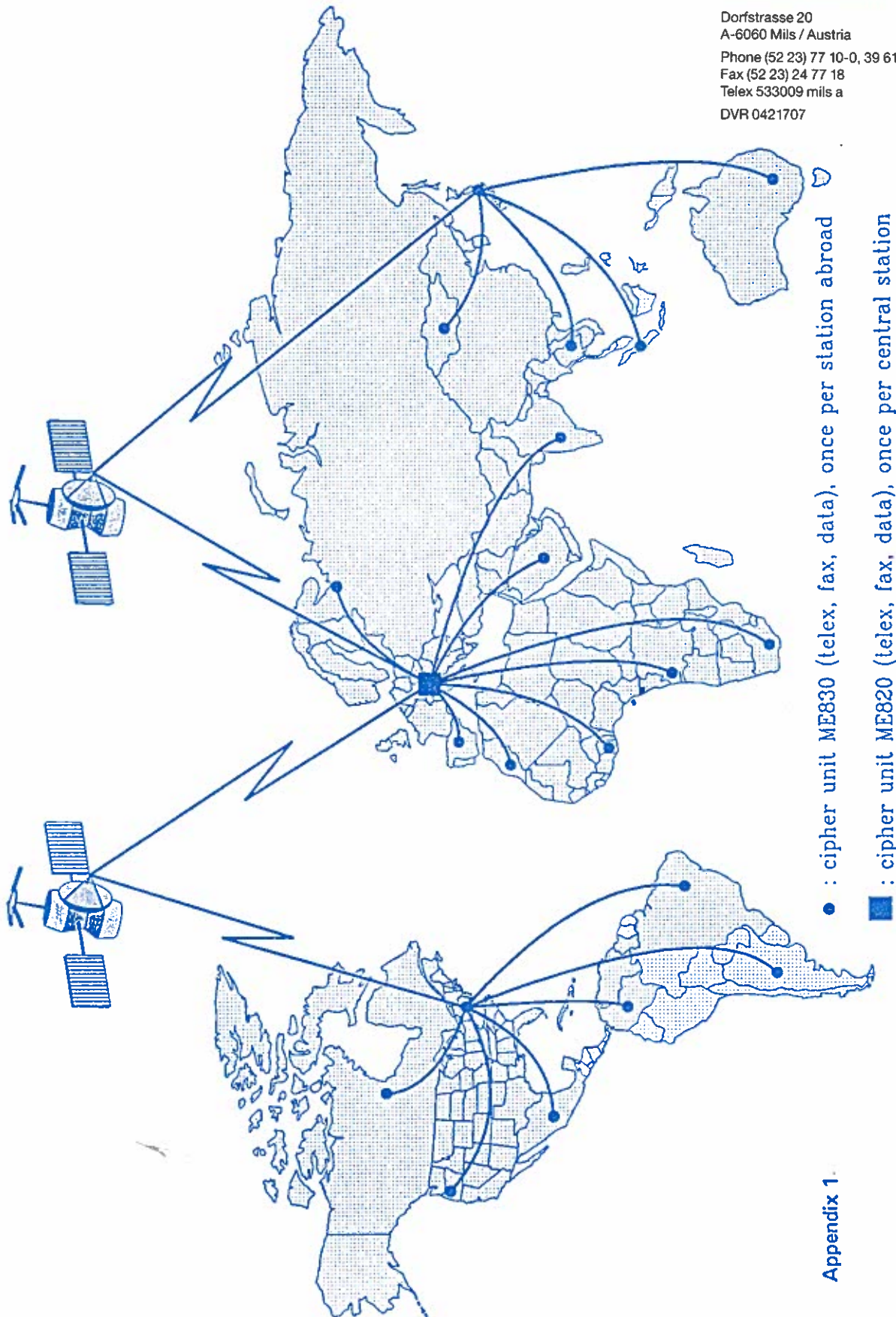
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Appendix 1.

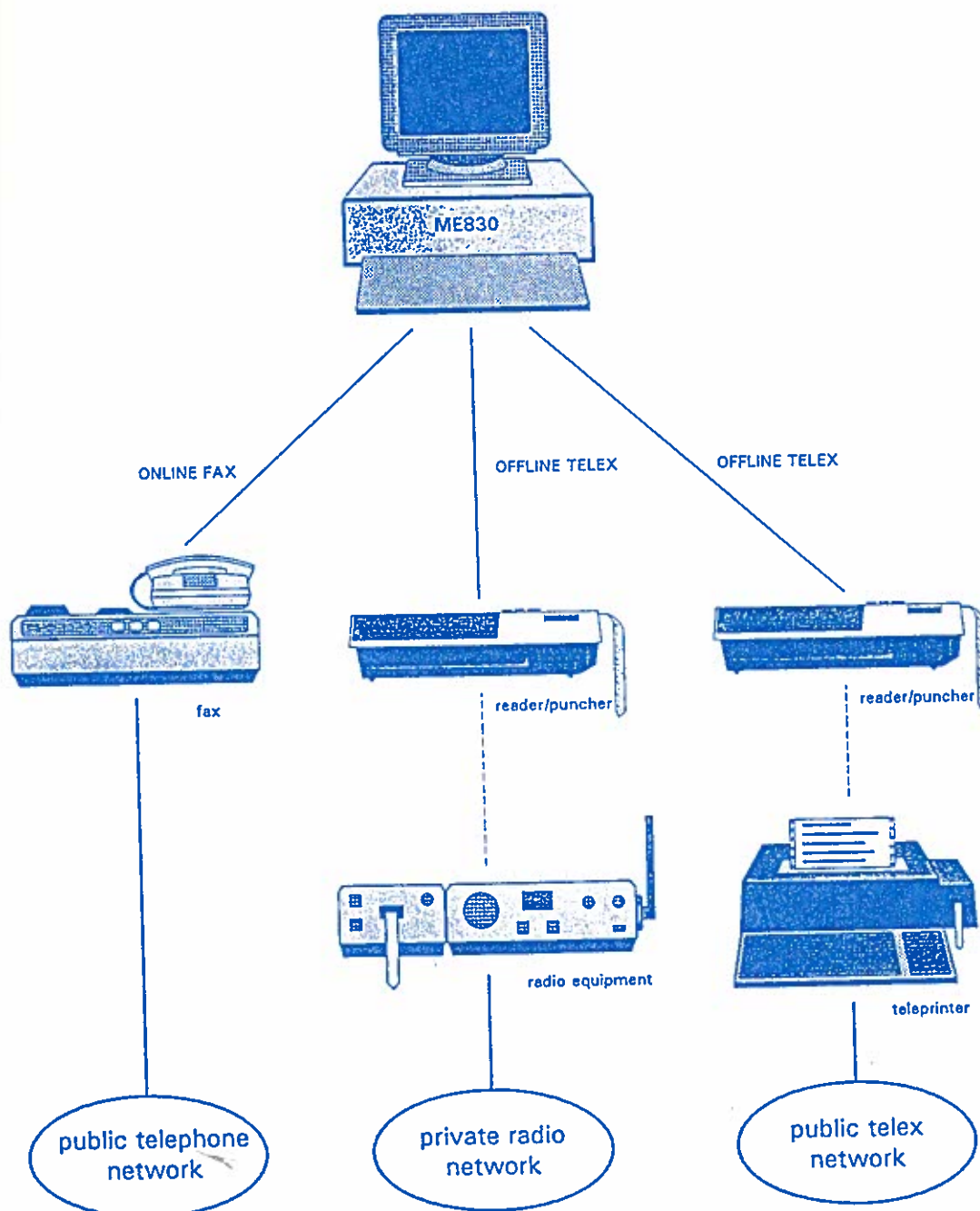


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Appendix 2: Supported Telecommunication Services

STANDARD TRANSMISSION MODES



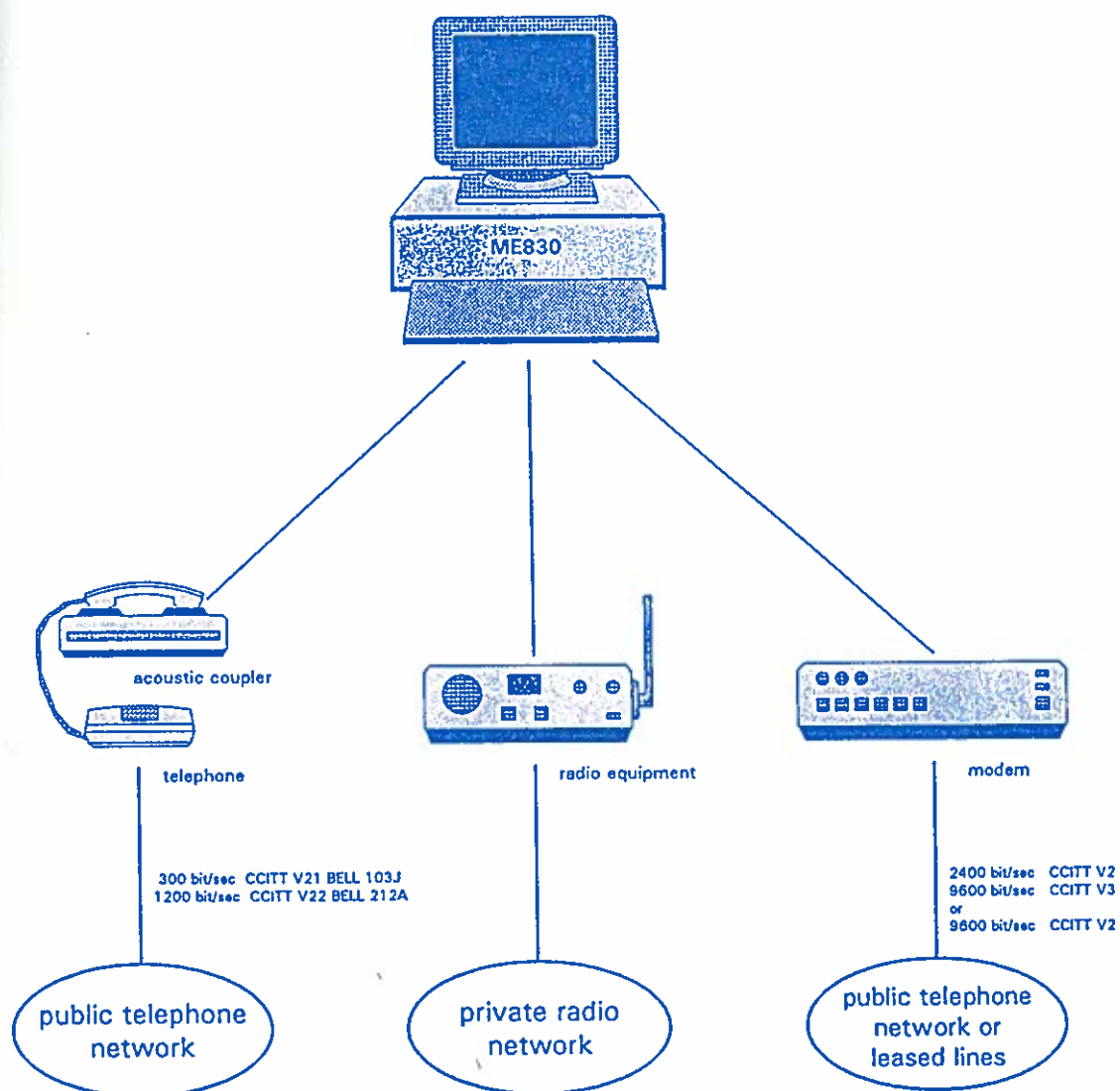


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Appendix 3: Supported Telecommunication Services

ONLINE MODEM TRANSMISSION (OPTION)



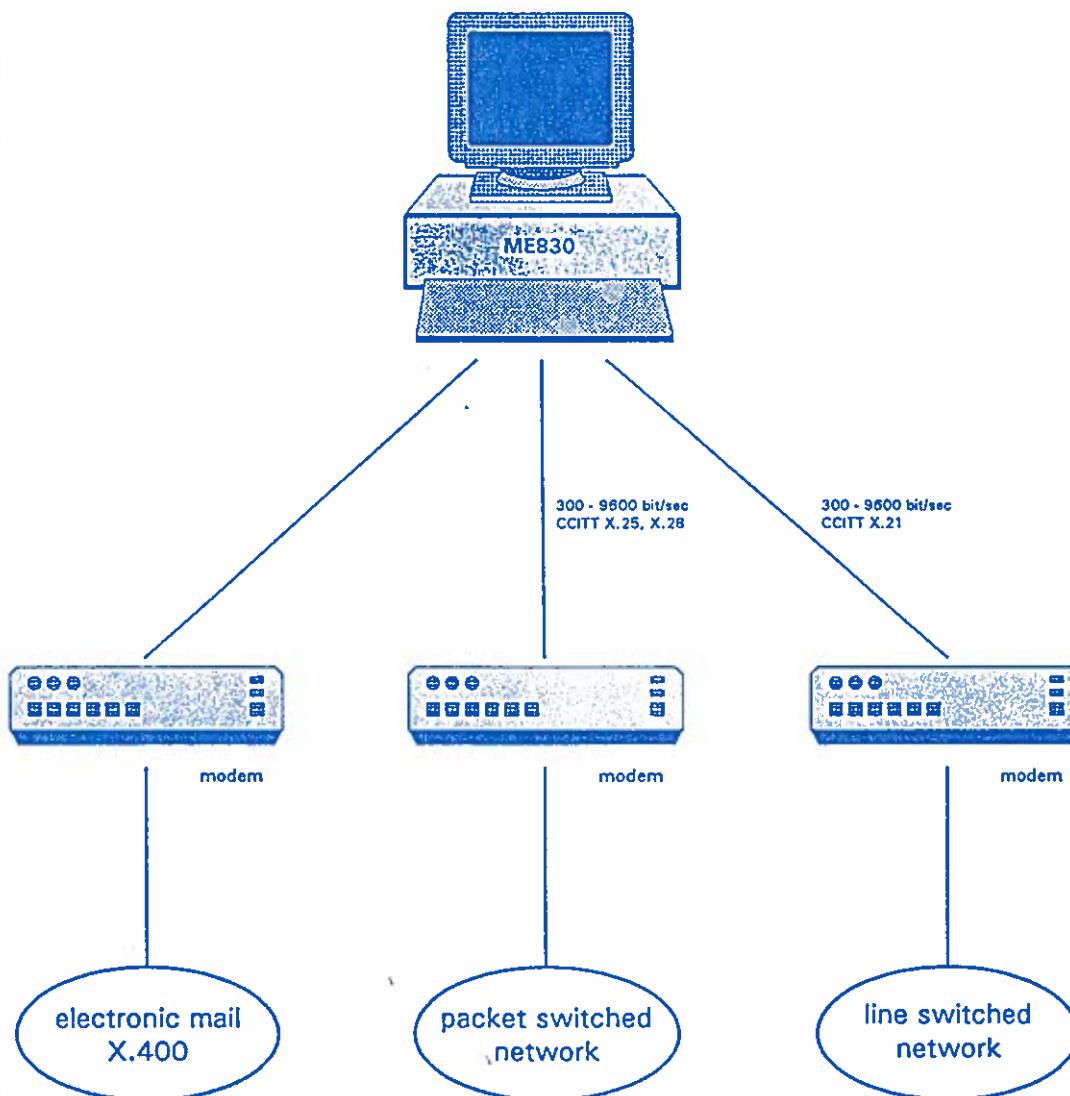


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Appendix 4: Supported Telecommunication Services

ONLINE DATA TRANSMISSION (OPTION)



**A wide range of equipment and decades of experience
in the field of cryptology is available from
MILS ELEKTRONIK.**

We develop and manufacture:

- **ONE TIME KEY**-systems, using either random key tapes or random key discettes compatible with each other. Special programs insure that the recorded key can not be copied in any manner by unauthorized persons.

This increase of security is accompanied by operational improvement: a computer supported, fully automatic key management makes the application of **ONE TIME KEY**-systems as easy as the use of electronic key generators.

- Telex cipher units (mixers) for off-line and/or on-line use with **ONE TIME KEY** and/or internal electronic key generator application. Special programs compensate for transmission errors, so that synchronism between the key and the received cipher text remains even if several hundred characters are lost during transmission.
- Fax cipher units with **ONE TIME KEY** and/or internal electronic key generator application. Depending on the capacity per key disc, up to several hundred pages can be encrypted in the **ONE TIME KEY** mode.
- Pocket-size, portable units with plug-in peripherals like acoustic coupler, mini-printer and telex interface.
- Voice cipher systems for use with telephones and radio transmitters.
- Custom tailored cipher units to satisfy specific customer requirements.
- Adaptation of our standard products to be integrated into existing communication networks without additional costs.

All of our equipment can be operated very easily – just a few hours of training are enough to guarantee faultless operation.

