

Easy to use

To use IF-MAIL, a PC or laptop with Windows XP pro is needed. Once installed and set up, IF-MAIL works in the Windows background. The user will only need to use Outlook Express.

Sending emails

IF-MAIL makes it possible to send emails using radio transmissions. It also makes it possible to send emails all over the world by connecting with the main station, which will serve as the router to the Internet.

Confidentiality

IF-MAIL is available in a standard version, with DES 56 type encryption and in a "government" reserved version with AES 256 type encryption.

Encryption is carried out on the entire message, including the header, ensuring that any communication stays confidential.

The "chat" function will have simplified encryption applied.

Transferring files

The transfer of files is supported in the same way as for traditional Outlook exchanges. However, the user should be careful not to attach very large files to the message, which would need to use the radio for an extended time.

If the connection is broken, the transmission resumes from what was correctly received.

Required hardware

- IC-F7000 or IC-M700PRO type HF-ICOM Transmitter/Receiver (other transmitters/receivers can be used; please consult us for advice)
- 200-12V power supply
- HF IF-PTCIIIIPRO modem
- Broadband antenna or whip antenna with coupler if being used in a vehicle
- GPS with USB port (optional)
- USB hub depending on the number of ports available on the PC
- Printer and scanner if necessary
- A desktop PC or laptop with the following minimum configuration: Pentium III (256 MB RAM, 500 MB hard-disk space), 1 video card with 1024x768 minimum resolution, 1 RS232 port for the USB baseport, 1 modem. Windows XP PRO operating system.
- HF radio network

The IF-MAIL software is supplied on a CD with a hardware key and documentation in English/French.

Les spécifications et informations données dans ce document peuvent être modifiées sans préavis.

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CACHET DISTRIBUTEUR



ALE, Establishing an automatic connection

IF-MAIL periodically establishes radio contact with the other stations on the network, on a frequency set and according to pre-defined time zones so that data transfer is optimised.

"Chat" dialogue mode

The "chat" feature makes a dialogue between two stations possible by typing short sentences directly onto the keyboard.

Operator intervention

The operator can intervene by manually initiating a connection with a distant station.

When the operator does this, the message service can be interrupted in order to make a voice radio station transmission or telegraphy (CW) possible.

Other possibilities

- Sending and receiving faxes (software and modem installed in the station's PC)
- GPS positioning



IF- MAIL

DATA TRANSMISSION WITH EMAIL GATEWAY FOR HF NETWORKS

IF-MAIL
Data transmission System with email gateway for HF networks

INTERNET

- Encryption : DES56, AES256
- ALE : Establishing an automatic connection
- Easy to use : Outlook express
- Sending emails
- Dialogue mode : "chat"
- Transferring files

Icom France s.a.s.

IF-MAIL

Data transmission System with email gateway for HF networks

IF-MAIL is a program that makes it possible for isolated points of contact, which cannot connect to a wired telephone network, to be able to send and receive e-mails to the set of stations on the network by using a radio link (a).

If one of the stations is connected to the Internet, it will transparently serve as a router, which allows all stations connected by radio to send and receive emails all over the world (b).



(a) Example of a network with radio-only communication access. The stations exchange emails by radio. A vehicle that has a PC can also send emails through the closed network, and even be localised if it is equipped with GPS.

(b) Example of three stations, only one of which (Station 1) has an Internet connection. Stations 2 and 3 that are connected by radio, can thus automatically exchange traffic with subscribers all over the world who have an email address. A vehicle that has a PC can also send emails all over the world, and even be localised if it is equipped with GPS.

