

HANNIBAL SECURE TELEPHONE





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HANNIBAL is a secure ISDN (Integrated Services Digital Network) telephone designed to be capable of protecting voice and data over EURO ISDN up to **TOP SECRET**.

Its design is based on the BRENT wideband telephone – developed by CESG as the lead product of a programme to meet UK government's need for an inter-departmental secure speech

system well into the 21st Century.

HANNIBAL has been developed from BRENT to satisfy the needs of a wider market in Europe and beyond. HANNIBAL retains the user-friendly features of BRENT that combine reliable security with convenient operating procedures. The addition of a RED ISDN S₀ bus gives HANNIBAL the flexibility to connect directly to

compatible commercial equipments while maintaining secure functionality and dial-through capability.

HANNIBAL's user-friendly operation allows secure calls to be established automatically when a Secure Telephone Key (STK) is inserted in each equipment. The unique user STK provides secure call authentication and ensures low key management overhead.

MAIN FEATURES

- HANNIBAL is equipped with a RED ISDN S₀ bus, which provides a transparent connection to the EURO ISDN.
- HANNIBAL can also be used to provide secure dial-up connectivity between LANs.
- HANNIBAL uses both ISDN B channels, providing a dedicated speech channel and a secure 64kbit/s data port, or two secure 64kbit/s data ports,

which can be operated simultaneously. Independent network operation and encryption are provided on each user channel.

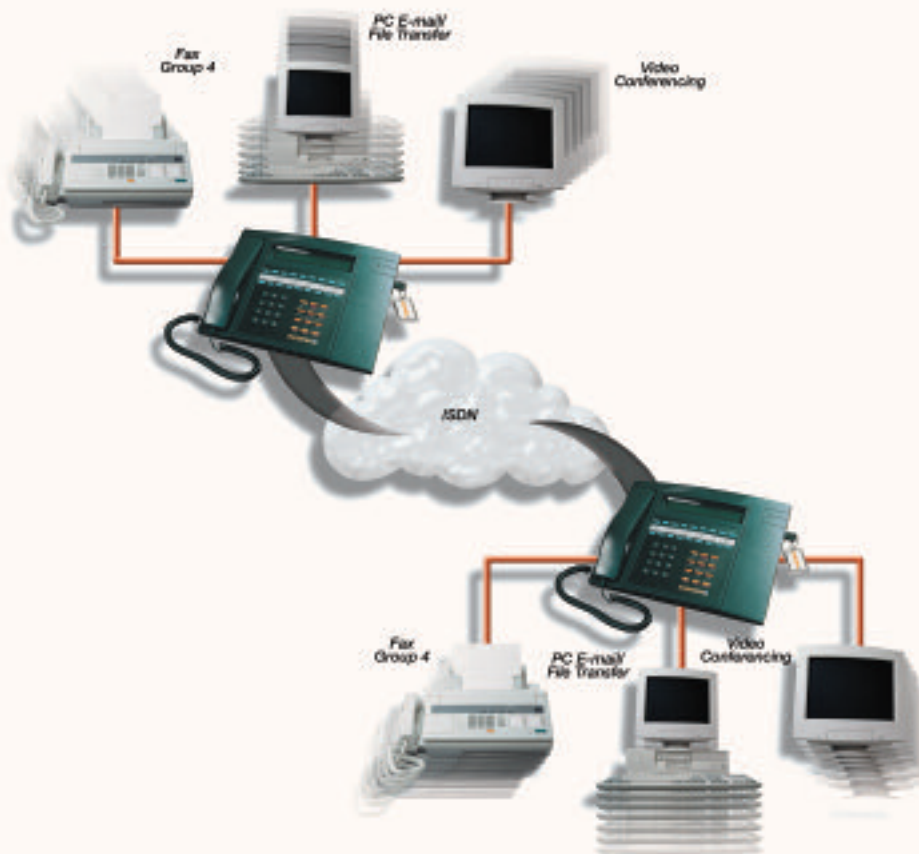
- A unique Call Bypass Monitor ensures only selected D channel signalling messages are passed to the network.
- Commercial EURO ISDN S₀ interface compatible equipment, plus applications such as ISDN

video conferencing and personal computers may be connected directly to HANNIBAL.

- Call progress information supplied by the network is displayed on the LCD, and presented to the user application.

Additional features

Single key dial, last number redial, mute button, International Telecom approval.



SPECIFICATION

Operating Modes

- Plain or secure voice.
- Secure Data.

Simple User Interface

- Fully automatic secure call set-up.
- Two row by forty character backlit LCD display for:
 - remote party authentication

- user prompt messages
- call status messages
- Fast dial keys.

User Features

- Non-Secure or Secure speech mode operation.
- Rapid call and crypto set-up (less than 3 seconds).
- No loss of speech quality in

secure voice mode.

- Two 64kbit/s secure data-ports.
- Ringing speaker volume control.
- 18 fast dial keys.
- On-hook dialling.

Approval

- BAPT approval for connection to the public network.

CHARACTERISTICS

Technical Features

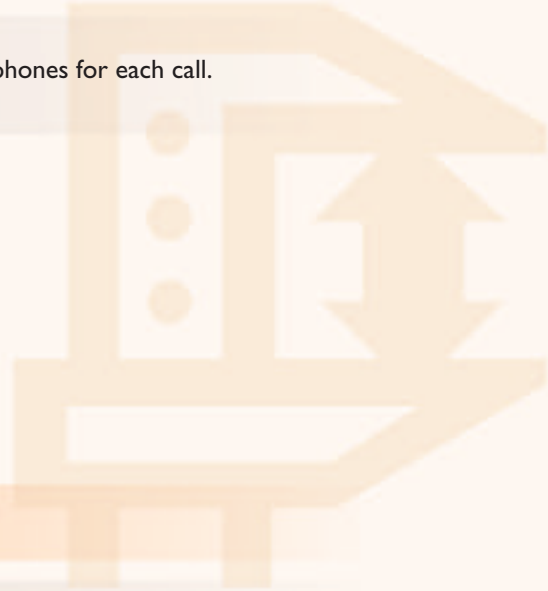
- RED S₀ bus.
- RED data-port interface to V.I.I at 64kbit/s.
- External mains power supply unit.
- Operating voltages 110-220 AC 50-60Hz.

Security Features

- Self synchronising cryptographic algorithm utilising public key techniques.
- Protects voice and data up to TOP SECRET.
- Unique encryption variables are generated between phones for each call.
- Erasure of all crypto data on removal of STK.
- Security fixing point on base.
- Tamper resistant construction.

Environmental

- Operating Temperature 0°C to +40°C.
- Storage -40°C to +70°C.
- Humidity 90% non-condensing.



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HANNIBAL was designed and developed by: CESG

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