Selex ES
A Finmeccanica Company

Homeland Security & Critical Infrastructures

BRENT 2
SECURE TELEPHONE

BRENT 2 is a secure ISDN (Integrated Services Digital Network) telephone, which protects voice and data up to and including TOP SECRET and all UK caveats. It is an upgrade to the current BRENT and meets requirements for both secure and non-secure telephony.

BRENT 2 has been designed to operate over EURO ISDN (CCITT I.420) and connects directly to the public ISDN, or to Private Branch Exchanges (PBXs) with I.420 connection.

Features

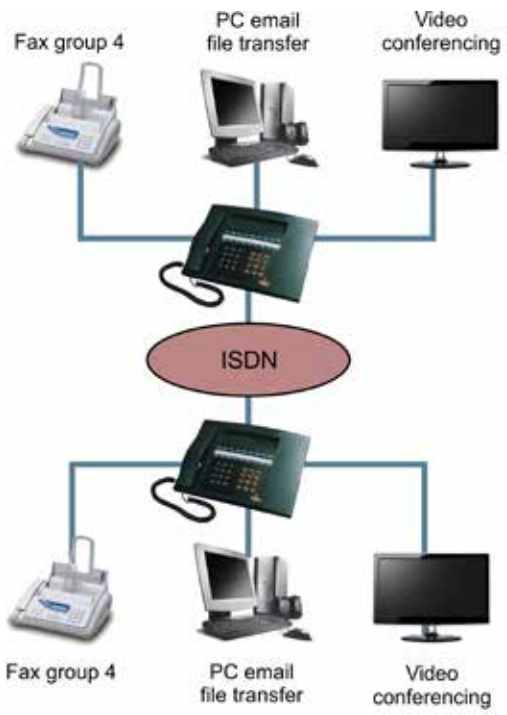
- Dial-through operation via the new RED ISDN S0 bus using both 64 kbit/s channels independently
- BRENT and BRENT 2 are totally interoperable
- ETSI EURO ISDN (BT ISDN2e) BRI compliant
- DTMF signalling
- BRENT 2 meets NATO TEMPEST standard AMSG 720 and has been evaluated by SECAN and approved by the Military Committee for the processing of NATO information of all classifications

BRENT 2's user-friendly operation allows secure calls to be established automatically when a Secure Telephone Key (STK) is inserted in each telephone. The unique user STK provides secure call authentication and ensures low key management overhead.

SUMMARY

- BRENT 2 can be used wherever there is access to EURO ISDN I.420 compatible exchanges or to the UK public ISDN2e service
- Commercial EURO ISDN compatible equipment, such as video conferencing and PCs may be connected directly to BRENT 2
- BRENT 2 offers all the features of the original BRENT, but with the addition of a RED S0 bus, providing transparent connection to EURO ISDN. This allows independent dial through operation for each of the two ISDN channels
- The RED S0 bus can be used to provide transparent secure dial-up connectivity between LANs. (figure 1, overleaf)
- Operation of BRENT 2 in the UK or approved countries is enabled using a UK or National
- User Group Secure Telephone Key (STK)

BRENT 2 uses the Supplementary Services of ISDN to enable, for example, the interconnection of several data applications such as FAX, PC and Video. The most useful of these services are subaddressing (SUB) and Multiple Subscriber Number (MSN). These features are particularly useful where more than one BRENT 2 telephone or multiple terminal/applications are to be operated on a single access.



SPECIFICATION

Operating Modes

- Secure or non-secure voice (warnings issued in non-secure mode)
- Secure dial through
- Secure data
- Secure voice and data

Simple User Interface

- Two row by forty character backlit LCD display for:
  - Remote party authentication
  - User prompt messages
  - 3 call status messages
- Dial keypad: standard 0 - 9 * #
- 18 memory keys
- 12 function keys

User Features

- Fully automatic secure call set-up
- Automatic switching to non-secure voice mode when Communicating with non BRENT equipment or BRENT's without an STK inserted
- No loss of speech quality in secure mode Secondary DTMF Dialling capability
- Recall function
- On-hook dialling
- Fast dialling (stored numbers)

Approvals

- CESG certified for protectively marked traffic of the highest levels with all caveats
- TEMPEST approved to AMSG 720B and to BTR/01/202(4)
- BABT, EMC and safety tested and approved for use in benign office environments
- BRENT 2 meets NATO TEMPEST standard AMSG 720 and has been evaluated by SECAN and approved by the Military Committee for the processing of NATO information of all classifications

CHARACTERISTICS

Technical Features

- ISDN interface to public and private networks via basic access standard ETSI I.420
- ISDN Supplementary Services supported e.g. Multiple Subscriber Numbering (MSN) and sub addressing (SUB)
- EURO ISDN & BT ISDN2e compliant
- RED ISDN S0 bus
- RED data port interface to X.21 at 64 kbit/s (independent of voice channel)
- External 115/230V AC mains power supply unit (standard)

Security Features

- Self-synchronising cryptographic algorithm developed and approved by CESG
- Crypto and key management features proprietary to HMG

For more information please email **infomarketing@selex-es.com**
Selex ES Ltd - A Finmeccanica Company
Lambda House - Christopher Martin Road - Basildon - Essex - SS14 3EL - United Kingdom - Tel: +44 (0) 1268 823400
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