

BRENT 2 Secure Telephone



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

Communication

Encryption

Total Secure Communications



BRENT 2

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. It offers the following features:

- Dial-through operation using the new **RED** ISDN S_0 bus using both 64 kbit/s channels independently
- ETSI EURO ISDN (BT ISDN2e) BRI compliant
- DTMF signalling
- Trusted Authentication Mechanism for automatic checking of caller's certificate

BRENT 2 has been submitted to SECAN for the NATO BRI competition.

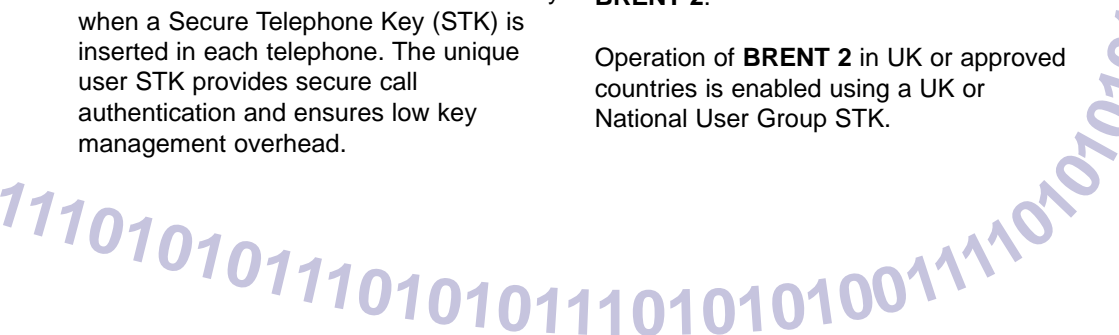
BRENT 2's user-friendly operation allows secure calls to be established automatically when a Secure Telephone Key (STK) is inserted in each telephone. The unique user STK provides secure call authentication and ensures low key management overhead.

BRENT 2 can be used wherever there is access to EURO ISDN I.420 compatible exchanges or to the UK public ISDN2e service.

BRENT 2 offers all the features of the original **BRENT**. In addition, it incorporates a **RED** S_0 bus providing transparent connection to the EURO ISDN. This allows independent dial through operation for each of the two ISDN channels. The **RED** S_0 bus can thus be used to provide transparent secure dial-up connectivity between LANs.

Commercial EURO ISDN S_0 interface compatible equipment plus applications such as ISDN video conferencing and PCs may be connected directly to **BRENT 2**.

Operation of **BRENT 2** in UK or approved countries is enabled using a UK or National User Group STK.



OPERATING MODES

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

USER INTERFACE

- 2 row by 40 character back-lit LC display for
 - remote party authentication
 - user prompt messages
 - 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 BRENTs 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)



SECURITY FEATURES

- Self-synchronising cryptographic algorithm developed and approved by CESG
- Crypto and key management features proprietary to HMG
- Unique encryption variables generated automatically between phones for each call
- UK and National User Group STKs
- STK User Groups of unlimited size can be requested
- Erasure of all crypto data on removal of STK
- With the STK removed, the unit is not protectively marked, but is treated as a valuable item and must be accounted for
- Call Bypass Monitor
- Tamper resistant construction

TECHNICAL FEATURES

- ISDN interface to public and private networks via basic access standard ETSI I.420
- 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)

APPROVALS

- CESG certified for protectively marked traffic of the highest levels with all caveats
- TEMPEST approved to AMSS 720B and to BTR/01/202(4)
- BABT, EMC and safety tested and approved for use in benign office environments



For information on procurement of BRENT 2, please contact:

Marconi Secure Systems Ltd
2 Wavertree Boulevard
Wavertree Technology Park
Liverpool
L7 9PE

Tel: +44 (0)151 282 5300
Fax: +44 (0)151 254 1194

Website: www.marconi.com

Manufactured by

Marconi

© Crown Copyright 2001

E-mail: sales@marconi-securesystems.com

For more information on any aspect of CESG's work, please contact:

Customer Support Office
Communications-Electronics Security Group
PO Box 144
Cheltenham. GL52 5UE
United Kingdom

Tel: +44 (0)1242 237323
Fax: +44 (0)1242 257520

E-mail: enquiries@cesg.gov.uk
Website: www.cesg.gov.uk

