An advanced, flexible
ISDN encryption solution
with unique modularity.

Babylon™ 4xBRI

Babylon *4xBRI Encryptor*

The Babylon 4xBRI is an ISDN Encryptor, which provides end-to-end authentication and encryption for safe and secure communications across switched digital networks.

Featuring a Quad Basic Rate Interface and uniquely-flexible architecture, the Babylon 4xBRI is packaged in a tough housing designed to satisfy the most stringent information security environments.

Babylon™ 4xBRI is an advanced, digital encryption device equipped with four ISDN Basic Rate Interface (BRI) ports. It is simply placed in front of the end-user device, such as an ISDN telephone, fax, personal computer or videoconferencing system and is especially suitable for small to medium enterprises.

Innovative Modular System
Babylon is the only encryption platform with interchangeable interfaces making the system compatible with all environments, such as ISDN, Frame Relay and X.25. When the network's architecture is changed, the administrator simply needs to exchange the interface card and update the Babylon firmware to the appropriate protocol, without having to change the encryption main board. Babylon's modular concept minimises customer risks by providing full investment protection and low maintenance costs.

Encryption
Babylon uses hardware-supported symmetric 192-bit triple-DES encryption algorithms for encrypting the data stream. For every new communication session, Babylon 4xBRI automatically generates a unique key by means of the Diffie-Hellman public key exchange protocol. Users can also define their own set of keys and assign them to the different logical links.
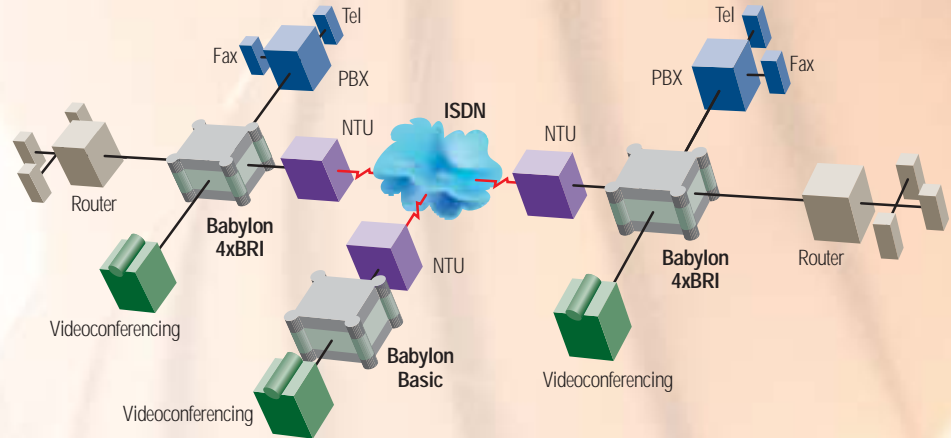
Remote Management
SecurityManager allows authorised administrators to centrally manage encryption keys, install new firmware and configure devices. Babylon devices support SNMP and Syslog. Extensive monitoring capabilities about every connection provide network managers with real-time system status.

Promptus
INFOCrypt™
Secure access to a digital world.

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Applications

Babylon 4xBRI is ideal for securing and protecting discrete larger-bandwidth applications or multiple lower-bandwidth applications. Mixing different Babylon family devices across the network ensures perfectly-matched capacity, security and interoperability.

Tel
Fax
PBX
ISDN
NTU
NTU
Tel
PBX
Fax
Router
Babylon 4xBRI
NTU
Babylon 4xBRI
Router
Videoconferencing
Babylon Basic
Videoconferencing
Videoconferencing

Chassis Dimensions (H x W x D)
• 8.31 x 4.09 x 11.54 in (211 x 104 x 293 mm)

Weight
• 4.41 lbs (2 kg)

Power Requirements
• Voltage input: 80 to 240V AC
• Nominal frequency: 47 to 63 Hz
• Input power (max): 18W
• Voltage output: 15V DC

Operating Requirements
• Operating temperature: 32 to 104ºF (0 to 40ºC)
• Atmospheric Humidity: 0 to 70 %

Interfaces
ISDN Ports
• RJ-45 ports (4 x input / 4 x output) to connect ISDN devices
Management Ports
• RJ-12 port (V.24) for local management
• RJ-45 port (10BaseT) for monitoring and encrypted network configuration and key management

Features
• Protocol-transparent, full-duplex operation
• 1-4x Basic full line-rate encryption
• Data rate from 1 x BRI to 4 x BRI (N1 or E-DSS1)
• Compliant with N1 and E-DSS1 ITU-T or ANSI ISDN standards, e.g. ITU 430, 431, 441, 451, ETS 300 102.
• Supports leased-line connections 64S & 64S2, S01 & S02
• NFAS and H0 call support

Encryption
• Full line-rate encryption in highspeed networks up to 512 Kbit/s
• Independent encryption key for each logical link
• 64-bit DES in ECB, CFB, CBC
• 192-bit 3DES (Triple-DES) in ECB, CFB, CBC
• Diffie-Hellman public key management (1,024-bit)

Management
• Remote and user-friendly management of all Babylon devices within a network using the SecurityManager
• Devices store alarm events in memory with time & date stamps
• Automatic system self test on boot-up
• Monitoring via SNMP and Syslog

Features

• Modular encryption platform for communication lines of up to 512 Kbit/s
• Hardware-based, approved DES, 3DES (Triple-DES) encryption (192 bit)
• Secures ISDN (voice, data, fax, videoconferencing), Serial Links, X.25, Frame Relay, Link-HDLC, Link-Bitstream and mobile satellite connections (Inmarsat)
• Operates seamlessly between private and public networks
• Modular design for investment protection and cost reduction
• Secures teleworking and telemedicine environments
• Completely transparent to end-users within the secured environment
• Enforces policies as defined by the security system administrator
• Remote management using SecurityManager.

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Biodata