

The modular, high-speed encryption solution for Primary Rate ISDN.

## Babylon™ PRI

### SECURITY APPLICATIONS

- Videoconferencing
- Multipoint Conferencing
- Voice, Data & Fax
- LAN-to-LAN Connectivity



## Babylon PRI Encryptor

The Babylon PRI is a multi-channel ISDN Encryptor, providing end-to-end authentication and encryption, for safe and secure communications across private and public switched digital networks.

Featuring a 30-channel Primary Rate Interface and modular architecture, the Babylon PRI offers manageable and scalable, high-level information security for enterprises of any size.

Babylon™ PRI is an advanced, large-scale, digital encryption device equipped with an ISDN Primary Rate Interface (PRI) port. It is simply placed in front of customer premises equipment, such as an ISDN PBX, router, videoconferencing system or multipoint control unit and is especially suitable for large enterprises and Government agencies.

### 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

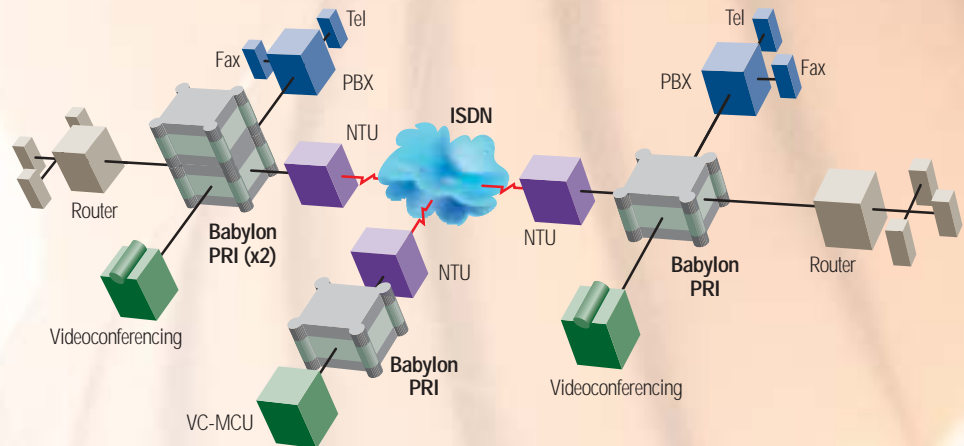
SecurityManager allows authorised administrators to centrally manage encryption keys, install new firmware and configure devices. Babylon devices support SNMP and Syslog. Extensive monitoring capabilities about every connection provide network managers with real-time system status.

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# BabylonPRI Encryptor

## Applications

Babylon PRI is ideal for securing and protecting the largest bandwidth applications or multiple, lower-bandwidth applications. Where traffic is highest, Babylon PRI is expandable and stackable to accommodate greater capacity. For concentrated high-bandwidth applications like multipoint videoconferencing hubs, Babylon PRI delivers centralised capacity combined with high-level security and interoperability.



TECHNICAL SPECIFICATION

### 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 104°F (0 to 40°C)
- Atmospheric Humidity: 0 to 70 %

### Interfaces

#### ISDN Ports

- RJ-45 ports (1 x input / 1 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 & key management

### Features

- Protocol-transparent, full-duplex operation
- 1-4x Basic full line-rate encryption
- Data rate from 1B (64 Kbit/s) to 23B/30B (1472/1920 Kbit/s) (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 high-speed networks up to 2 Mbit/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 2 Mbit/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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