

The modular, high-speed encryption solution for Serial-Line-Based networks.

Babylon™ Serial

SECURITY APPLICATIONS

- Virtual Private Networks
- Frame Relay PVCs
- LAN-to-LAN Connections
- Leased-Line Networks
- Wide Area Networks



Babylon Serial Encryptor

Babylon Serial is an Encryptor for Line-based networks, which provides end-to-end authentication and encryption for safe and secure communications across computer networks.

Featuring Serial interfaces and unique modular architecture, Babylon Serial delivers manageable and scalable, highly-secure connectivity for enterprises and agencies of any size.

Babylon™ Serial is an advanced, large-scale, digital encryption device equipped with Serial interface ports. It is simply placed in front of a data terminal or WAN interface and is especially suitable for the Leased-Line and Virtual Private Networking requirements of 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 Biodata 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 Serial 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

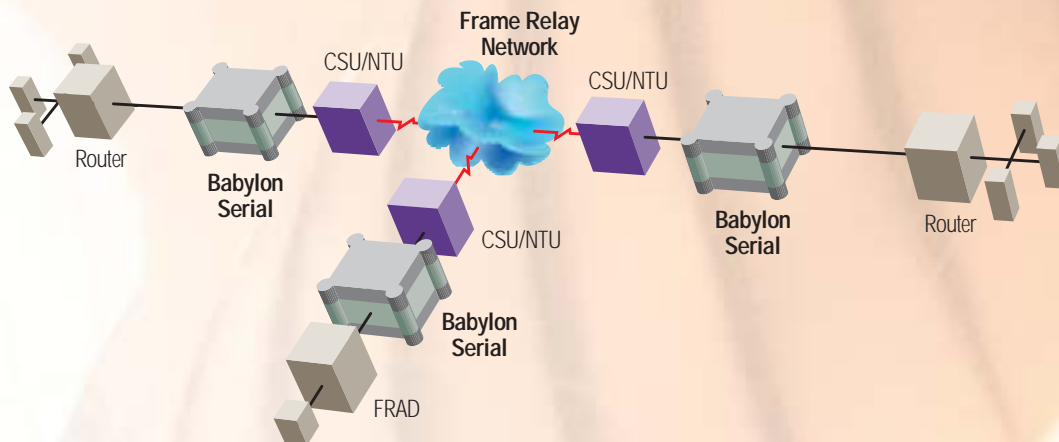
SecurityManager allows authorised administrators to centrally manage encryption keys, install new firmware and configure devices. Babylon devices support SNMP and Syslog. Extensive monitoring capabilities about every connection provide network managers with real-time system status.

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Babylon Serial Encryptor

Applications

Babylon Serial is ideal for securing and protecting virtual private networks (VPN). IP and SNA computer networks are fully secured when operating over Leased Circuits, Satellite Links or Fractional T1/E1 configurations.



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

Synchronous Ports

- DB-25 ports (1 x input / 1 x output) Cable/Software configurable to V.24, V.35 or X.21

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
- Full line-rate encryption for Bitstream, HDLC and/or Frame Relay networks
- Models with Data Rates up to 4 Mbit/s

Encryption

- Full line-rate encryption in high-speed networks up to 4 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 4 Mbit/s
- Hardware-based, approved DES, 3DES (Triple-DES) encryption (192 bit)
- Secures Serial Links, X.25, Frame Relay, Link-HDLC, Link-Bitstream and Satellite connections
- Operates seamlessly between private and public networks
- Modular design for investment protection and cost reduction
- Secures remote and headquarter Wide Area Networks
- 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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