BLACK BOX®
NETWORK SERVICES

Encrypted Ethernet Tunnel

Key Features

- Industrial rated -40 to +70 °C

▶ Two Ethernet ports: one 10BASE-T, one 10/100BASE-T(X)

▶ Two asynchronous serial RS232 ports Each port is independent and easy to

▶ setup and maintain

▶ Extensive statistics logging and diagnostic tools Tunnels all Ethernet protocols, not just IP

▶ AES 128 bit encryption

▶ Ethernet to Ethernet or Ethernet to serial (for secure PPP dialup)

▶ Tunnel Ethernet over an IP Network Remote PC appears to be on the local network

▶ Supports both broadband and dial-up connections

▶ Compact size, Stand-alone or Rack Mounting

▶ Point-to-point or point-to-multipoint topology supported

▶ AC and DC power supply options

LES6000AE is an industrial temperature rated device for creating encrypted Ethernet tunnels. It features two serial ports and two Ethernet LAN ports.

LES6000AE encrypts data between private networks using the public Internet or any other network as the transport. For example, you can take your office notebook computer home and connect securely to the office, just as though you were still there, and do this through the Internet. Use the same IP address at home and at the office. If both the office and the home have broadband, large amounts of data can be moved very efficiently. LES6000AE adds just milliseconds to the data propagation time.

It uses 128 bit AES encryption. AES is the new encryption standard selected using an open selection process to replace DES and 3DES encryption.

For Ethernet to Ethernet connections, the 10BASE-T connection is the untrusted side, or the Internet. The 10/100 Ethernet port is the trusted, or internal side of the unit. For Ethernet to Serial connections, the serial port becomes the untrusted side, while the 10/100 Ethernet is trusted side. One unit is required for each location. Multiple remote units may be logically connected to the same host unit.

LES6000AE operates through firewalls with only one TCP port of your choice opened. It bridges all Ethernet protocols including IPX, IP, NetBeui, and other proprietary protocols. It is straightforward, easy to configure and maintain. LES6000AE has the features you want without the complexity, expense, and overhead of standard VPN products and protocols.

Each LES6000AE unit operates as a client or server (or both simultaneously). The client units communicate with a unit configured as in server mode. For multi-point operation, each LES6000AE configured as a server will support up to eight remote client units.
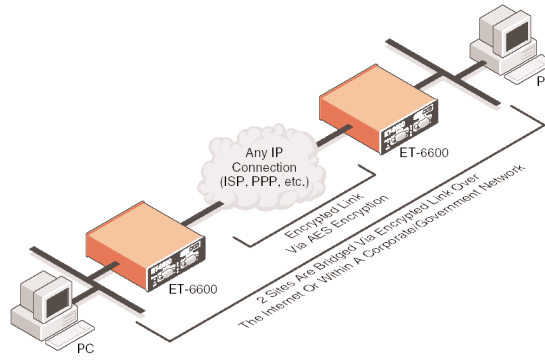
Specifications

Connections
- (2) RS-232 serial ports DB9 M, speeds from 300bps to 230 Kbps
- (1) Ethernet 10/100Mbps autosense
- (1) Ethernet 10BASE-T

Features
- AES 128 bit encryption
- Transparent bridging function, supports any Layer 3 or higher protocol
- Auto-Disconnect timers

Management
- Web browser configuration and management from local trusted interface
- Default IP address: 192.168.0.1
- Initial setup via local serial terminal
   o **Indicators:** (1) Power, (1) Status, (2) port activity, (2) LAN con nection & activity
   o **Controls:** Reset

Physical/Electrical
- Power requirements: 9 VDC, 600 mA (supplied with 230 VAC external power supply)

Environmental
- Operational Temperature: -40 to +70 C
- Storage Temperature: -50 to +75C
- Humidity: <95% Non-condensing
   Note: Power Supply Options may affect temperature specifications

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Ordering information

ITEM	CODE
Encrypted Ethernet Tunnel LES6000AE	

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We are, with 25 years of experience, the world leader in network infrastructure services.

On the Phone — no charge, answer calls in less than 20 seconds, find the right product with our technical experts.

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