

THALES



> Datacryptor® AP

Link E3/T3 Encryptors

KEY BENEFITS

- > Secures E3/T3 links
- > Provides up to 44.736 Mbps throughput
- > Strongest commercially available algorithms
- > Government and customized ciphers
- > Meets the highest security standards

Datacryptor® AP (DCAP) Link E3/T3 encryptors offer a proven, high-assurance solution for protecting sensitive or high-value information transported over shared, point-to-point leased lines. The units authenticate remote devices, automatically exchange key material and encrypt and decrypt transmitted data. The encryptors operate in framed or unframed mode at speeds up to 44.736 Mbps, answering the market's continuing need for higher speed secure link connectivity.



>> Datacryptor® AP Link E3/T3

Technical Specifications*

Interfaces

- > **Network ports (E3/T3):** BNC physical interfaces
- > **Management port:** 10BASE-T Ethernet (RJ45)
- > **Control port:** RS-232 serial (DE9)

Adapter cables

- > Unbalanced 75Ω (BNC)

Cryptography

- > **Encryption algorithms:** Triple DES, AES (128, 192, 256-bit key lengths); government and custom algorithms also available
- > **Encryption mode:** OFB

Key Management

- > **Unit authentication:** X.509 certificates
- > **Key agreement:** Diffie-Hellman (or national/custom algorithm)

Security Features

- > **Random number generator:** Hardware
- > **Firmware signing:** DSA, SHA-1
- > **Tamper detection:** Voltage, temperature, motion, physical penetration; automatically erases certificates, keys, algorithm (even when unit is unpowered)
- > **Other protection:** Tamper-resistant security module (SGSS); Tamper-evident enclosure; Keylock, Erase button

Certifications

- > **FIPS:** 140-2 Level 3 (SGSS and Bootstrap code); cryptographic algorithms validated under NIST CAVP

Device Management

- > **Thales management software:** Element Manager, Front Panel Viewer
- > **Network monitoring support:** SNMPv1

Modes of operation

- > E3 framed or unframed format
- > T3 framed (M13/M23 or C-bit parity) or unframed format

Special Features

- > **Synchronisation:** Automatic (continuous)
- > **Upgradeability:** Firmware, algorithms

Physical

- > **Size:** 432 x 240 x 44mm / 17.0 x 9.4 x 1.7in (W x D x H)
- > **Weight:** 4.0kg / 8.8lbs
(dimensions exclude mounting ears and connectors)

Power

- > **Type:** Internal PSU
- > **AC power option:** 100 - 240 V_{AC} 50/60 Hz auto-sensing
- > **DC power option:** -48 V_{DC}
- > **Maximum dissipation:** 25 W/85 BTU (DCAP)

Environment

- > **Temperature:** 5 - 40°C/41-104°F (operating), -10 - 65°C/14-149°F (storage)
- > **Relative humidity:** 10 - 90% at 25°C/77°F (non-condensing)
- > **Barometric pressure:** 780-1100mBAR

Regulatory

- > **Approval marks:** CE (EU), UL (US/Can), C-Tick (Aus/NZ)
- > **EMC emissions:** EN55022 Class B, FCC Class B, VCCI Class B
- > **EMC immunity:** EN55024
- > **Safety:** EN60950-1, UL60950-1, IEC60950-1

Ordering Details

(algorithm, cable and power options should be specified at time of ordering)

Speed	Model No.
E3 (34.368Mbps):	DCAP-LJ
T3 (44.736Mbps):	DCAP-LK

*Specifications may vary with model, algorithm and firmware release - contact Thales for further information; model availability varies by territory.

Thales - Information Systems Security

