



## Datacryptor® AP

Multi-Protocol Network Encryptors

### KEY BENEFITS

- Secures high-value networks
- Upgradeable protocol, speed and algorithm
- Can be reconfigured for Link, Frame Relay or IP
- Reduces network upgrade costs
- Meets the highest security standards

Thales' Datacryptor AP (DCAP) Multi-Protocol provides complete peace of mind by securing your most sensitive data while simultaneously protecting your investment through its unique flexibility, ease of deployment and upgradeability.

Based on over 30 years of experience, Thales' DCAP family offers a proven solution to protect sensitive or classified network traffic based on the highest security standards. The Multi-Protocol model is the latest member of this family, providing unprecedented versatility in a small, affordable encryptor.

The DCAP Multi-Protocol model's unique ability centres on its multiple network interfaces, enabling it to be configured as a Link, Frame Relay or IP encryptor. It offers the same performance as the Datacryptor 2000 (DC2K) Link, Frame Relay and DCAP IP models, with which it is fully compatible and interoperable. The small form factor model further increases the Multi-Protocol model's range of application.

Customers can deploy the DCAP Multi-Protocol confident in the knowledge that their investment is protected if and when they need to change their wide area network (WAN) infrastructure. Furthermore, for organisations with multiple, varied networks, its protocol, speed and algorithm agility enables them to standardise on a single product, protecting your investment whilst taking advantage of the latest technology.



# >> Datacryptor® AP Multi-Protocol

## Technical Specifications\*

### Interfaces

- > **Network ports:** 10BASE-T/100BASE-TX Ethernet (RJ45), Multi-function (DA26)<sup>†</sup>
- > **Management port:** 10BASE-T Ethernet (RJ45)
- > **Control port:** RS-232 serial (DE9)

### Cryptography

- > **Encryption algorithms:** AES (128, 192, 256-bit key lengths), Triple DES Government and custom algorithms also available
- > **Encryption modes:** OFB, CFB8, CBC, GCM
- > **ESP modes (IPv4):** Tunnel, Transport

### Key Management

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

### Security Features

- > **IP data integrity:** GCM, Extended Sequence Numbers
- > **Management traffic:** Encrypted, authenticated using HMAC
- > **Random number generator:** Hardware
- > **Firmware signing:** DSA
- > **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
- > **CAPS:** Baseline Grade, Enhanced Grade (up to UK SECRET)

### Device Management

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

### Capabilities

- > **IP security associations:** Up to 400 (bi-directional)
- > **Encrypted Frame Relay DLCIs:** Up to 992
- > **Upgradeability:** Firmware, algorithms, protocol, interface speed

### Physical

- > **"19" rack-mounting model:** 432 x 240 x 44 mm (W x D x H), weight 4.0 kg
- > **Small form factor (SFF) model:** 220 x 240 x 60 mm (W x D x H), weight 2.4kg  
(dimensions exclude mounting ears and connectors)

### Power

- > **Type:** External PSU
- > **Operating voltage:** 100 - 240 VAC 50/60 Hz (auto-sensing)
- > **Maximum dissipation:** 25 W (85 BTU) maximum

### Environment

- > **Temperature:** 5 - 40 °C (operating), -10 - 65 °C (storage)
- > **Relative humidity:** 10 - 90% at 25 °C (non-condensing)

### 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, IEC 60950-1

### Ordering Details

*(algorithm and cable options should be specified at time of ordering; "19" model will be available in a future release)*

PROTOCOL	SPEED	SFF MODELS
IP	10 Mbps	DCAS-DX
	10/100 Mbps	DCAS-DH
Link	Standard (up to 512 kbps)	DCAS-GX
	High speed (up to 2 Mbps)	DCAS-GH
	Very high speed (up to 8 Mbps)	DCAS-GV
Frame	Standard (up to 256 kbps)	DCAS-HX
	High speed (up to 2 Mbps)	DCAS-HH
	Very high speed (up to 8 Mbps)	DCAS-HV

† Adapter cables available to support RS-232C/V.24 (DB25), RS-530 (DB25), V.35 (MRAC-34), X.21/V.11/RS-422 (DA15)

\* Specifications may vary with model, algorithm and firmware release  
- contact Thales for further information

Thales - Information Systems Security



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