



## ECTOCRYP® Yellow

### Portable High Grade IP Data Encryption

ECTOCRYP Yellow is the next stage in Airbus' sovereign UK cryptographic development. Portable and low-cost, ETOCRYP Yellow is the interoperable basis for highly secure strategic and tactical networks.

Building on the success of market-leading ETOCRYP Blue, ETOCRYP Yellow is designed to provide the very highest levels of security for Governments and Defence customers.

CAPS approved and utilising PRIME Suite A, (NCSC's 'preferred solution for network layer cryptography'), ETOCRYP Yellow has been certified up to Top Secret (including National Caveats such as UK Eyes Only) over a public infrastructure.

With 100 Mbit/s Ethernet connectivity, and designed for cost effective small/branch office operation, ETOCRYP Yellow provides secure voice, data and video transport over fully meshed or hub and spoke IP networks.

Thanks to ETOCRYP Yellow there are no requirements for leased lines or air gaps, leading to cost-savings for organisations.

With low latency and high throughput, ETOCRYP Yellow has minimal network impact, and provides end users with transparent and secure operations.

Feature rich ETOCRYP Yellow can provide savings by removing the typical additional equipment. Highly configurable and feature rich makes ETOCRYP Yellow suitable for all deployments and bearers.

**AIRBUS**

## Features and Benefits

ECTOCRYP Yellow supports crypto discovery, working alongside OSPF/RIP/DHCP to make the system simple to configure with configuration being dynamically learnt.

Multicast streams can be secured and sent as encrypted multicast streams on the black network (no packet duplication), a more efficient use of the bandwidth available. This feature can also allow receivers to remain silent (EMCON) while still receiving traffic.

Once booted, ETOCRYP Yellow can be configured to operate with the User Crypto Ignition Key (CIK) removed, for added security when used in a high risk area.

ECTOCRYP Yellow's backup battery lasts the lifetime of the unit, there's no need to replace it. There is no unit maintenance required after initial deployment.

Key future enhancements will be delivered through software upgrades, ensuring cost-effective future communications security with minimal operational impact.

ECTOCRYP Yellow, when sent separately from its associated User CIK, is shipped via official channels, making transport simple and cost-effective.

Airbus Cyber Security also provides a network modelling and design service to support the migration from traditional cryptographic network architectures to an IP secure network, featuring Cost Benefit Analysis, Throughput Modelling and ROI.

ECTOCRYP Yellow is available with 24/7 365 days a year support from SME's located in the UK.

ECTOCRYP Yellow's uniquely flexible and programmable architecture provides industry-leading Value For Money whilst minimising the risk of obsolescence.

ECTOCRYP Yellow is TEMPEST out of the box – with no additional casing required.

## Technical Specifications

### Features

- PRIME Suite A
- IKEv2 (Pre-Shared Keys)
- Community Separation (CCOI)
- Pre-Placed Key (Manual) SA
- Multicast - Including receive only mode (EMCON)
- Remote Management
- Crypto Discovery - PTS
- OSPF & RIP
- QoS Bypass
- CT DHCP client
- NAT Traversal
- CIK Removal after Boot
- Access Control Lists
- IP Fragmentation and Reassembly
- Management via SNMPv3

### Capacity

- True 256 simultaneous Security Associations
- Support for up to 530 keys (PPK, PSK, CCOI)
- >180Mbit/sec bidirectional IMIX throughput
- <1ms latency

### Certification

- PRIME 1.3.2.
- CAPS certified for operation up to IL6
- TEMPEST: Certified to SDIP 27/1 Level A
- RoHs Directive
- EU EMC Directive and EU Low Voltage Directive

### Security Features

- CIK support to enable operation
- Encrypted Software Update
- Tamper Detection
- Tamper Evident Seals
- Full Zeroise function
- Remote kill capability

### Physical Interface

- Ciphertext –100-Base-T RJ45
- Plaintext –100-Base-T RJ45
- Plaintext –100-Base-FX SC Fibre Optic

### Physical and Environmental Specifications

- Size: 38 x 168 x 243 (HxDxW in mm)
- Weight: 1.8kg
- Operating Temperature: 0°C to 45°C – Humidity <70%
- Storage Temperature: -20°C to 60°C – Humidity <90%
- Power: 5V DC from 100-240VAC 50-60Hz plug top power unit, 15VA power dissipation
- Backup battery: ~15 years

### Future

- Certificates support (x.509)
- Automatic annual rekey
- Simple and immediate isolation of compromised keys
- DHCP Relay