



ECTOCRYP® Blue

High Grade IP Data Encryption

ECTOCRYP Blue is the next stage in Airbus' sovereign UK cryptographic development. This enterprise version with its 19" rack mounting is fully interoperable with ECTOCRYP Yellow, providing high grade encryption for highly secure strategic and tactical networks.

Building on the success of the market leading ECTOCRYP Blue, Airbus Cyber Security is offering a variant with PRIME Suite A. This version is fully interoperable with ECTOCRYP Yellow and other PRIME networks and has been developed for the highest levels of security for Government and Defence customers.

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

With 1Gb/s Ethernet connectivity, and designed for hub communication operation's, ECTOCRYP Blue provides secure voice, data and video transport over fully meshed or hub and spoke IP networks.

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

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

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

AIRBUS

Features and Benefits

ECTOCRYP Blue 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.

ECTOCRYP Blue supports QoS Queuing and is able to ensure that priority traffic is never dropped even if the link becomes saturated.

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

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

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

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

ECTOCRYP Blue 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
- QoS Queuing
- NAT Traversal
- Access Control Lists
- IP Fragmentation and Reassembly
- Management via SNMPv3

Capacity

- 1000 simultaneous Security Associations
- Support for up to 256 keys (PPK, PSK, CCOI)
- >1.6 Gbit/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

- Management –100Base-T RJ45 (Front and Rear)
- Plaintext and Ciphertext – SFP
1000Base-T/1000Base-LX/1000Base-SX

Physical and Environmental Specifications

- Size: 2 U 19" Rack; 84 x480x505 (HxDxW in mm)
- Weight: 15kg
- Operating Temperature:
0°C to 35°C – Humidity 30% to 70%
- Storage Temperature:
-20°C to 60°C – Survive Humidity 93% @ 55°C
- Power: AC from 85-264VAC 47-63Hz

Future

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