

# ECTOCRYP® Blue

*Transparent cryptography*



SECURITY-SECURITY SECURITY

ECTOCRYP® Blue is the only 19" rack-mount HAIPE interoperable device designed, produced and capable of protecting data up to TOP SECRET (including National Caveats such as UK Eyes Only) over a public infrastructure.

ECTOCRYP® Blue:

- Operates at 1Gbs data throughput
- Is completely transparent in operation
- Is capable of over 16,000 simultaneous Security Associations
- Supports HAIPE 3.1.2
- Is fully in-field reprogrammable
- Is CAPS certified to High Grade including Caveats
- Is delivered via ACCSEC channels
- Fits a standard 19" rack
- Is TEMPEST approved



## Features and Benefits

ECTOCRYP® Blue allows users of Red networks to connect over Black networks in a certified, standards-compliant, secure environment. No air-gapping or leased lines – just ultra-flexible, ultra-secure networking. Unlike traditional cryptographic systems, ECTOCRYPT® Blue has been designed to be totally transparent. Network performance is unaffected and cryptographic processes are invisible to users and administrators.

HAiPE support enables full interoperability between Allies, Coalition Partners and Government Departments. All areas of Government benefit from secure traffic across classified or unclassified networks. In addition, ECTOCRYPT® Blue is delivered unmarked via ACCSEC channels for ease of transportation prior to the insertion of the Crypto Ignition Key (CIK). The system is in-field reprogrammable, remaining in situ whilst upgrades and changes are made. ECTOCRYPT® Blue supports IPv4, making the system simple to configure and interface with both red and black networks. This ease of management extends to a feature-rich management terminal and standard Windows operating interface.

ECTOCRYP® Blue facilitates significant savings and business benefits on cryptographic network architectures. EADS also provide a network modelling and design service to support the migration from traditional cryptographic network architectures to an Ectocryp® Blue IP secure network, featuring Cost Benefit Analysis, Throughput Modelling and ROI. This flexible, programmable architecture maximises total cost of ownership and minimises obsolescence risk. Key future enhancements will be delivered through software upgrades, ensuring cost-effective future communications security with minimal operational impact.

## EADS Defence & Security

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**ECTOCRYP**  
Transparent Cryptography



  
DEFENCE TECHNOLOGY EXCHANGE  
Winner - Defence Technology Innovation Awards

## Technical Specification

### Management Support

- Local management via 100 Base-T connectivity
- Remote management in-band
- Windows hosted custom management application
- SNMP v3 compliant management capability
- Intelligent Fill Interface

### Network Features\*

- RIP routing over red networks
- Support for Copper SFP
- Remote management in-band

### Protocol Support

- HAiPE IS 3.1.2 support including granular selectors and management extension.
- IPv4 compliant

### Cryptography Support

- Suite A compliance.
- Capable of protecting TOP SECRET and below, including National Caveats, such as UK eyes only
- Other cryptographic suites available on request (e.g. NATO/Releasable)

### Capacity

- 1Gbps data throughput
- In excess of 16,000 simultaneous security associations

### Physical Interfaces

- Management - 100-Base-T interface (RJ45 connectors front and rear)

\* Version 2 only

- RED and BLACK 1000-Base-SX optical traffic interfaces (LC connectors)
- RED and BLACK RJ45 1000-BASE-T (Copper SFPs)\*
- Power - AC input 85 to 264V (47 to 63Hz)

### Upgradeability

- Fully in-field reprogrammable – from protocol handling to cryptographic algorithm suites

### Certification Features

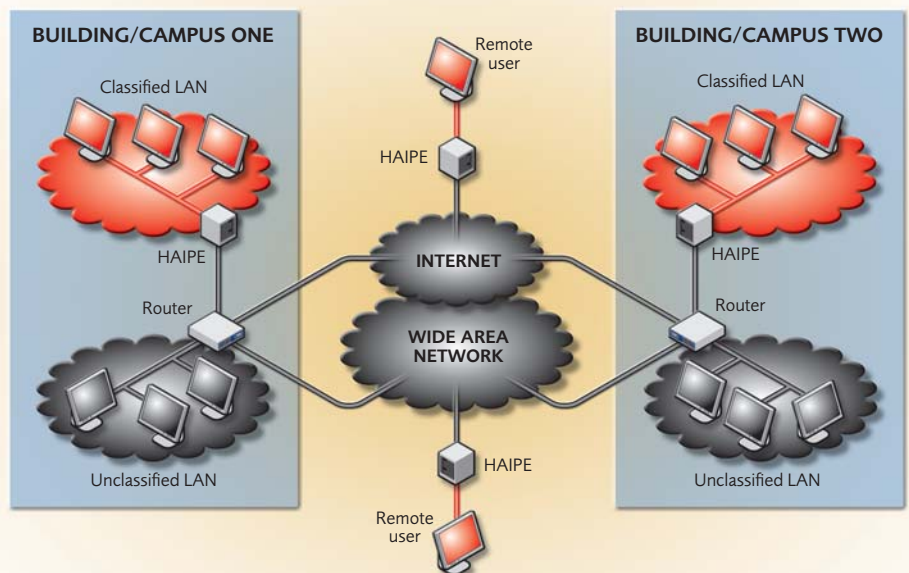
- CAPS evaluated to high grade including Caveats
- TEMPEST approved
- SDIP 27A Approved\*
- CE approved
- MoD (DoD) mandate (JSP602:1032) for data exchange between networks

### Physical Specifications

- 2U 19" rack mountable (84H x 480W x 505D)
- Weight - 15kg
- Operating temperature 0°C to 35°C – 30 to 70% Relative Humidity
- Storage temperature -20°C to 60°C, and survive 93% Relative Humidity at 55°C

### Security Features

- Crypto Ignition Key (CIK) dramatically reduces cryptographic distribution, handling and accounting
- Tamper resistant
- Full erase function
- Delivered via ACCSEC channels



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