

TACLANE®-C100 Encryptor

Secret and Below Encryptor with Simplified Handling

Remotely Managed by: **GEM X** ENCRYPTOR MANAGER



NSA Certified

Simplified Non-CCI Handling Supports "Leave Behind" Deployment

Compatible with Foreign Interoperable (FI) Devices

Extends IA Use & Interoperability Beyond Traditional Type 1 Users

Small Size, Lightweight (4.25 lbs), and Low Power

User creation of Device Generated Shared Key (IPMEIR Shared Secret)

Overview

The TACLANE®-C100 Encryptor provides users with a non-CCI solution to protect information classified Secret and below for both strategic and tactical environments. The TACLANE-C100 Encryptor is a Suite B solution that meets the Cryptographic High Value Product (CHVP) requirements for simplified handling and accounting. The C100 is ideal for use in high risk scenarios, government releasability and leave behind strategies, federal and civilian applications, and organizations responsible for securing the nation's critical infrastructure.

Features at a Glance

- Supports Suite B algorithms and IPMEIR
- Compatible with foreign interoperable devices
- IPv4/IPv6 dual stack
- Interoperable with all HAIPE IS v3 & 4 devices
- HAIPE to HAIPE keying – keeps warfighters out of harm's way
- Field tamper recoverable
- Both fiber and copper interfaces
- HAIPE IS v4.1 and crypto modernization
- 200 Mb/s aggregate throughput
- Remote zeroize capability
- Local or optional remote GEM X™ encryptor manager
- Low power
 - User replaceable battery
 - Standard AA battery in benign environments
- Low latency and reset recovery for time critical applications
- Over-the-network software upgrade and local Field Software Upgrade
- Web-based TACLANE HMI
- Standard 5 yr hardware/software warranty
- Free 24/7 technical help desk support

TACLANE-C100 Encryptor

TECHNICAL SPECIFICATIONS

(Based on Hv3.1.2)

COMPACT SIZE1U (EIA Standard)

- 1.61"H x 5.5"W x 10.85"
- Up to 3 units mounted side-by-side in 19" rack
- Weight 4.25 lbs

POWER

- <22 Watts
- Lithium 3.6V for extreme environments
- User Replaceable Battery
- Standard Alkaline AA Battery for benign environments
- Passively cooled via natural convection
- MIL-STD 461E EMI Compliant power supply included

SPEED

- Full bandwidth, 200 Mb/s aggregate
- 10/100 Mb/s auto negotiation (full/half duplex)

STANDARD COMPLIANCE

- HAIPE IS v4.1
 - Q2, S2
- Suite B/IPMEIR

INTERFACES

- Cipher-Text (CT) and Plain-Text (PT)
- 10/100 Base-T electrical, RJ-45 connector
- 100 FX, 1310nm Optical, LC connector
- Standard DS-101 Key Fill Port
- Key Fill Bus Capability¹
- Primary Power 12VDC 30 Watts
- Remote zeroize input

ENVIRONMENTAL

- Operating Temperature: -40°C to 60°C (-40°F to 140°F)
- Storage Temperature: -40°C to 71°C (-40°F to 160°F)
- Humidity: 95% non-condensing
- MIL-STD 810 (Sand/Dust, Rain, Altitude, Shock, Vibration)
- MIL-STD 167-1 (Vibration)
- MIL-STD 901D (Navy Hammer Shock)

- MIL-STD 461E (Electromagnetic Compatibility)

TEMPEST

- In accordance with NSTISSAM TEMPEST/1-92 Level 1

ALTITUDE

- Storage: Sea level up to 60,000 ft
- Operating: Sea level up to 50,000 ft

RELIABILITY

- 320,000 Hrs Mean Time Between Failure (Ground fixed benign)

SECURITY ASSOCIATIONS (SAS)

- Supports large networks with 512 fully meshed nodes simultaneously
- Existing connections replaced as needed
- 8,000 Hosts allocated over active security associations

KEYS

- 48 Authenticated Pre-placed Keys (APPKs) Chains, with up to 11 changeover keys per slot (load APPKs once a year)

LOW LATENCY

- Ideal for time delay critical applications (VoIP and satellite)
- Does not exceed 59 microseconds for <= 46 byte packet (IPv4)
- Does not exceed 73 microseconds for <= 64 byte packet (IPv6)

MANAGEMENT

- Perform locally via connected front console, or remotely via CT or PT interface

LOCAL MANAGEMENT

- Web-based using standard browser
- Retains TACLANE menu structure and commands

OPTIONAL REMOTE MANAGEMENT

- Standards-based SNMP v3
- HAIPE IS, Standard and Enterprise MIBs supported
- Up to 12 simultaneous remote managers
- Over the Network Software Upgrade Reprogram algorithms, protocols and interfaces

NETWORK PROTOCOLS

- Ethernet
- IPv4/IPv6 Dual Stack
- IPv6 neighbor discovery and address resolution
- Address Resolution Protocol (ARP)
- Internet Group Management Protocol (IGMP) (v1/v2/v3) Queries/reports
- Multicast Listener Discovery (v1/v2)
- Internet Control Message Protocol (ICMP)
- NAT-T
- Path Maximum Transmission Unit (PMTU)
- PT Side RIP

DISCOVERY

- HAIPE IS v1.3.5 Secure Dynamic Discovery
- IM-PEPD
- Static Routing
- GDC, Reachability
- Over the Network Software Upgrade Reprogram algorithms, protocols and interfaces

Ease of Use and Management Tools

- GEM X™ Encryptor Manager – Manage a network of TACLANE encryptors remotely from a central location
- Generic Discovery Server (GDS) – Automatically discovers HAIPE devices
- Quick Start Wizard – Assists users with initial configuration of the TACLANE device
- TACLANE Configuration Tool – Assists users with the software upgrade and configuration process

¹: Hardware in place for addition of feature
Dates are based on Calendar Year.

GENERAL DYNAMICS

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