

TACLANE®-Micro (KG-175D)

The World's Most Widely Deployed HAIPE® Encryptor

Remotely Managed by: 



Front View



Rear View

Compact, Mobile & Rugged

Seamless Foreign Interoperability

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

Remote HAIPE to HAIPE Keying

Suite B (AES EFF) Only Version Available

Trade-In Program Available

Overview

TACLANE®-Micro is the most deployed High Assurance IP Encryptor (HAIPE®) and Crypto Modernization Compliant encryptor. The Micro is field proven and reliable with over 300,000 hours MTBF (based on fielded devices). Optimized for both tactical and strategic environments, the TACLANE-Micro is high speed, compact and mobile. Available as a new unit, or as a low cost trade-in for currently deployed units, the TACLANE-Micro is your high value, low cost solution. The TACLANE-Micro is supported 24/7 with Help Desk Support and comes with a five-year warranty.

Features at a Glance

- HAIPE IS v3.1.2 Certified; HAIPE v4.1 compliant & Crypto Mod compliant
- Seamless integration with COTS infrastructure
- IPv4/IPv6 Dual Stack
- 200 Mb/s aggregate throughput
- Foreign Interoperable
- Suite A/Suite B (AES EFF algorithm agility (per packet basis) – No manual intervention required
- HAIPE to HAIPE keying – Keeps warfighters out of harm's way
- Field tamper recoverable
- Both copper & fiber interfaces
- Remote zeroize
- Low Power (<22 watts)
- Low Latency
- NAT T extension enables users to securely communicate where network translation is present (hotel rooms or remote offices)
- Web-based user interface makes configuration and use easier
- 1U small form factor – Rack mountable
- Supernet static route support
- External power supply (included with unit)
- Field software upgrade (FSU)
- Standard 5 year hardware/software warranty
- Free 24/7 technical help – desk support

Cyber-Defense Capable

Designed for evolving cyber security requirements, TACLANE-Micro will be capable of providing broader security features to address emerging national threats. TACLANE will lead the market with enhanced capabilities for support of critical services in a high assurance HAIPE device.



GENERAL DYNAMICS
C4 Systems

TACLANE®-Micro (KG-175D)

TECHNICAL SPECIFICATIONS

(Based on Hv3.1.2)

COMPACT SIZE

1U (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

AVAILABILITY

TACLANE-Micro is now certified and shipping

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 v3.1.2

Suite A / Suite B (AES EFF)

Crypto Modernization

INTERFACES

Cipher-Text (CT) and Plain-Text (PT)

10/100 Base-T electrical, RJ-45 connector

100 FX, 1310-1580nm Optical, LC connector

Standard DS-101 Key Fill Port

Key Fill Bus Capability ¹

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)

Supports PPKs and APPKs, FIREFLY and Enhanced FIREFLY keys

HAIPE IS v3.1.2 Internet Key Exchange (IKE)

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)

Path Maximum Transmission Unit (PMTU)

RIP Listener/Speaker

NAT SUPPORT

NAT-T Automated Security Association Extension

REACHABILITY

Peer HAIPE Reachability Detection (PHRD)

Peer Destination Unreachability Notification (PDUN)

DISCOVERY

Generic Discovery Client

Static Routing

IM PEPD

HAIPE IS v1.3.5 Secure Dynamic Discovery

CERTIFICATIONS

TACLANE-Micro is NSA Certified to protect information classified Top Secret Codeword and below.

INTEROPERABILITY

HAIPE 3.1.2 multicast implementation

FOREIGN INTEROPERABILITY

Algorithm Agile - Simultaneous Suite A/AES EFF without manual intervention

Suite B (AES EFF) only version available

DePACs for U.S., CCEB, NATO, NATO Nations and Coalition R3.5 Suite B (AES EFF)

Ease of Use and Management Tools

- GEM X™ Encryptor Manager – Manage up to 500 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 unit

- TACLANE Configuration Tool – Assists users with the upgrade configuration process

Future Software Upgradeable Features

- ECDH, Suite B IPSEC via Hv4.1 software upgrade

- VLAN & user enhancements (future release)

Price

- \$9,900 each (New) – \$6,950 (Trade-in Option)

Dates are based on Calendar Year.

¹ Hardware in place for addition of feature

² Via software upgrade

GENERAL DYNAMICS

C4 Systems

Secure Communications: We Bring You What's Next

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