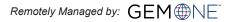
GENERAL DYNAMICS

Mission Systems

TACLANE®-Micro (KG-175D)

The World's Most Widely Deployed HAIPE® Encryptor







Rear View

Seamless Foreign Interoperability

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

Remote HAIPE to HAIPE Keying

Optional Agile VLAN Software

Advanced Cryptographic Capabilities (ACC) and Over-the-Network Keying (OTNK)

Overview

TACLANE-Micro is the most widely deployed High Assurance IP Encryptor (HAIPE) and Crypto Modernization Compliant encryptor. The Micro is field proven and reliable to withstand both tactical and strategic environments. Optimized for both tactical and strategic environments, the TACLANE-Micro is a compact, mobile 100 Mb encryptor.

Features at a Glance

- Simultaneous HAIPE v4.2.5 and IPMEIR 1.0 compliant
- IPv4/IPv6 dual stack
- 200 Mb/s aggregate throughput
- Foreign interoperable
- Suite A/Suite B/IPMEIR 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)</p>
 - Low latency
 - NAT-T extension enables users to securely communicate where Network Address Translation is present (hotel rooms or remote offices)
 - Supported by GEM[®] One Remote Manager
 - 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)
 - Safe Keying Features (CDGSK and KMI OTNK)
 - ACC Compliant
 - Free 24/7 technical help desk support

Optional Features

Agile Virtual Local Area Network (VLAN): Enables use of HAIPE security features on Layer 2 VLAN tagged / Non-IP Ethernet traffic while simultaneously supporting standard HAIPE encryption of IP traffic. Benefits include:

- Elimination of GRE Tunnels
- Redundancy
- Load Balancing

TECHNICAL SPECIFICATIONS

(Based on Hv4.1)

COMPACT SIZE

IU (EIA Standard)

- 1.6" H X 5.5" W x 10.85" D
- 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 v4.2.5
- IPMEIR v1.0
- HAIPE VLAN
- ACC and KMI OTNK

INTERFACES

- Cipher-Text (CT) and Plain-Text (PT)
- 10/100 Base-T electrical, RJ-45 connector
- 100 FX, 1300nm Optical short reach (Multimode Only)
- Standard DS-101 Key Fill Port
- Key Fill Bus Capability 1
- Primary Power 12VDC
- 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

Mission Systems

GENERAL DYNAMICS

gdmissionsystems.com/TACLANE • infosec@gd-ms.com

Phone: 781-410-9400 • Toll-free: 888-Type1-4-U (888-897-3148) • Fax: 781-410-9863

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

 Supports HAIPE to HAIPE Keying, APPK/ PPK, FIREFLY, Enhanced FIREFLY, Internet Key Exchange (IKE) v1/v2, Unclassified/Classified Device Generated Shared Key (DGSK), ACC, OTNK (KMI enabled)

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

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service names are the property of their respective owners. ® Reg. U.S. Pat. & Tm. Off. General Dynamics reserves the right to make changes in its products and specifications at anytime and without notice. The Type 1 encryption provided by the TACLANE is part of the Department of Defense, Defense in Depth strategy. Type 1 encryption is only one portion of the overall defense in

depth. A comprehensive network Information Assurance strategy involving Defense in Depth is required to ensure secure and reliable protection for sensitive and classified information

- 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)

TACLANE-Micro (KG-175D)

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 Secure Dynamic Discovery

CERTIFICATIONS

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

INTEROPERABILITY

 Interoperable with all HAIPE compliant encryptors

FOREIGN INTEROPERABILITY

- Algorithm Agile Simultaneous Suite Suite A/B/AES-EFF/IPMEIR without manual intervention
- P³, S², Q²

Ease of Use and Management

Tools

- GEM One Encryptor Management
- Manage a network of TACLANE encryptors remotely from a central location
- Generic Discovery Server (GDS)
 Automatically discovers HAIPE devices
- Quick Start Wizard

TACLANE Configuration Tool

configuration process

NSN # 5810-01-547-4520

Ordering

(KG-175N).

 Assists users with the initial configuration of the TACLANE device

Assists users with the software upgrade and

Next generation crypto modernization

products available. Look to the TACLANE-

FLEX (KG-175F) and the TACLANE-Nano

Available to order through IDIQ & General

INFOSEC immediately for purchase.

Dynamics only while supply lasts. Contact

D-TI MCRO-15-1220

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