

TACLANE®-Micro (KG-175D)

Smallest, Lightest, Tactical HAIPE® IS Solution

Remotely Managed by: 



Front View



Rear View

Smallest Full Bandwidth Encryptor

Compact, Mobile and Ruggedized for Both Tactical and Strategic Environments

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

NSA Certified and Available Today

Trade-In Program Available

Overview

TACLANE®-Micro is the next generation High Assurance IP Encryptor Interoperability Specification (HAIPE® IS) and Crypto Modernization Compliant encryptor. 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 your TACLANE-Mini, TACLANE-Classic, TACLANE-E100 or Sectera® INE, 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 5 year warranty.

Features at a Glance

- Interoperable with all HAIPE IS compliant TACLANE models
- Field tamper recoverable
- Both fiber and copper interfaces
- HAIPE IS v1.3.5 and crypto modernization compliant (HAIPE v3 via software upgrade)
- Performance
 - 200 Mb/s aggregate throughput
 - >23 SAs/sec minimizes set up time
- Remote zeroize capability
- Local or optional remote GEM X™ Encryptor Manager
- Low power (<30 Watts)
 - User replaceable battery
 - Standard AA battery in benign environments
- Low latency and reset recovery for time critical applications
- Over the network software upgrade
- Web-based TACLANE HMI
- Add/change/delete static routes, fill key and perform software upgrades without taking the TACLANE offline
- 5 yr hardware/software warranty for trade-in and new units



Future Software Upgradeable Features

- IPv4/IPV6 Dual Stack, and Foreign Interoperability via free HAIPE v3.02 software upgrade (release expected to be submitted to NSA for certification 2Q 2009)
- IM PEPD, HAIPE-to-HAIPE keying via free HAIPE v3.1.2 software upgrade (release expected to be submitted to NSA for certification 4Q 2009)
- Future HAIPE IS versions via over-the-network software upgrade

Price \$9,900 each. Trade-in Option: \$6,950.

GENERAL DYNAMICS
C4 Systems

TACLANE®-Micro (KG-175D)

TECHNICAL SPECIFICATIONS

COMPACT SIZE

1U (EIA Standard)
1.61"H x 5.5"W x 10.85"D
Up to 3 units mounted side-by-side in 19" rack
Weight 4.25 lbs

AVAILABILITY

TACLANE-Micro is now certified and shipping

POWER

<30 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 v1.3.5
Crypto Modernization

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 40,000 ft
Operating Sea level up to 15,000 ft

RELIABILITY

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

SECURITY ASSOCIATIONS (SAS)

>23 SAs/second
Supports large networks with 512 fully meshed nodes simultaneously
Existing connections replaced as needed
16,000 Hosts allocated over active security associations

KEYS

16 Traditional Pre-placed Keys (PPKs) Chains, with up to 11 changeover keys per slot (load PPKs once a year)
Supports PPKs, FIREFLY and Enhanced FIREFLY keys

LOW LATENCY

Ideal for time delay critical applications (VoIP and satellite)
Does not exceed 100usec for <= 80 byte packet

RESET RECOVERY

60 Second setup, startup, and recovery from power-on

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
Device can be managed by any HAIPE IS compliant manager
Up to 9 simultaneous remote managers

NETWORK PROTOCOLS

IPv4/IPv6 Dual Stack²
IPv6 neighbor discovery and address resolution²

ETHERNET

Address Resolution Protocol (ARP)
Internet Group Management Protocol (IGMP) (v1/v2) Queries/reports
Internet Control Message Protocol (ICMP)
Path Maximum Transmission Unit (PMTU)

DISCOVERY

HAIPE IS v1.3.5 Secure Dynamic Discovery

STATIC ROUTING

HAIPE IS v1.3.5 Internet Key Exchange (IKE) Over the Network Software Upgrade
Reprogram algorithms, protocols and interfaces

FUTURE ENHANCEMENTS

VLAN Trunking
Quality of Service (QoS)
HAIPE IS Future Versions³
Over the Network Keying (OTNK)

CERTIFICATIONS

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

¹ Hardware in place for addition of feature

² IPv4/IPv6 Dual Stack, and Foreign Interoperability via free HAIPE v3.02 software upgrade (release expected to be submitted to NSA for certification 2Q 2009)

³ Via software upgrade

Low Size, Weight and Power are part of General Dynamics green initiatives.

GENERAL DYNAMICS

C4 Systems

Secure Communications: We Bring You What's Next

INFOSEC 77 A Street, Needham, MA 02494-2806 USA • www.gdc4s.com/secureproducts

Phone: 781-455-2800 • Toll-free: 888-Type1-4-U (888-897-3148) • Fax: 781-455-5555 • E-mail: infosec@gdc4s.com

