

TACLANE®-Micro (KG-175D)

lightest, compact, all-in-one HAIPE® IS solution

TACLANE-Micro is now certified and shipping



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 Sectéra® INE, the TACLANE-Micro is your high value, low cost solution.

Lightweight, Compact and Mobile

The small form factor is ideal for both tactical and desktop environments.

- Fully ruggedized for tactical environments
- Weight 4.25 lbs
- Smallest full bandwidth encryptor available
- Overall size is 1.61"H x 5.5"W x 10.85"D
- Mount up to 3 units across in 1 standard 19" rack (1U in height including mounting shelf)
- Passively cooled (no fans or moving parts)

Decrease Size and Increase Value:

- 5 years of hardware and software warranty for both trade-in and new units
- Free 24 hours/day, 7 days/week Help Desk Support

Future Software Upgradeable Features:

- IPv4/IPv6 Dual Stack, IM-PEPD and Foreign Interoperability via free HAIPE v3.02 software upgrade (release expected to be submitted to NSA for certification 1Q 2009)
- Future HAIPE IS versions including Dynamic Discovery and common Management Information Base (MIB) via over the network software upgrade

Availability

TACLANE-Micro is offered for new installations or as a low cost trade-in for your TACLANE-Mini, TACLANE-Classic, TACLANE-E100 or Sectéra INE. TACLANE-Micro is now certified and shipping.

Training and Customer Support

You are never alone when you partner with General Dynamics to secure your critical information. With over 95,000 network encryptors deployed worldwide, General Dynamics is committed to support our customers. Classroom training is available as well as 24/7 Help Desk support.

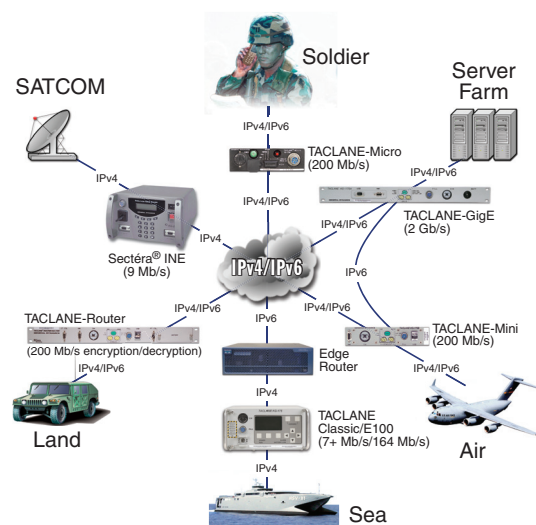
Features At A Glance:

- Interoperable with all HAIPE IS compliant TACLANE models
- Field tamper recoverable
- Both fiber and copper interfaces
- Fully ruggedized for tactical environments
- 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 management with 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



Seamless Communications Using IPv4/IPv6

IPv6 capabilities will be available with HAIPE IS v3.02 software upgrade (1Q 2009). Throughput rates below are shown in aggregate.



TACLANE®-Micro (KG-175D)

TACLANE-Micro 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 Capability ¹
 Primary Power 12VDC 30 Watts
 Remote zeroize input

Environmental

Operating Temp. -40°C to 60°C (-40°F to 140°F)
 Storage Temp. -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 Stack ²
 IPv6 neighbor discovery and address resolution ²
 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

Enhancements

VLAN Trunking
 Quality of Service (QoS)
 HAIPE IS Future Versions ³
 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 IPv6 available with HAIPE IS v3.02 via software upgrade (1Q 2009)

³ Via software upgrade

Dates are based on Calendar Year.

Remotely Managed by:



GENERAL DYNAMICS
 C4 Systems

Secure Communications: We Bring You What's Next

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