VIASAT KIV-79

Mode 5 Micro-IFF Crypto Appliqué

Viasat's new KIV-79, an addition to our other Low Size Weight and Power (SWaP) cryptographic systems, will provide NSA certified cryptographic services for Mark XIIA Identification Friend or Foe (IFF) Mode 5 Transponders in a small form factor suitable for UAVs and other small platforms.

Key Features

› NSA Type-1 certified SECRET for IFF Mode 5 interrogator and transponder functions
› Uses 100% commercial off-the-shelf hardware
› Programmable and software-upgradeable algorithms, key management, and security functions
› AIMS 04-900A Option B interface compatible
› Complete PSIAM™ cryptographic system module

PHYSICAL CHARACTERISTICS

Power	< 3 W, 2.5 W typical Input power range is 3.1 V - 5.25 V
Size & Weight	2.5" x 3.2" x 0.8" Physical adapter to support KIV-77 replacement ~ 6.3 oz / 176 grams
Interfaces	Single 25 pin Micro-D for Transponder connection › AIMS 04-900A message interface compatible Single 9 Pin Micro-D for Key Fill › Adapter cable required for SKL connection
Performance	Over 500 transactions per second Key storage capacity 1000+

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-40°C to 75°C
Humidity	0 to 100%
Altitude	Up to 80,000 feet above sea level
Vibration	IAW MIL-STD-810G

Viasat KIV-79 At-a-Glance

CRYPTOGRAPHIC FEATURES

› Ability to encrypt/decrypt interrogator/transponder packet by packet
› Key loading using the existing SKL Profile

FEATURES

› Field-replaceable battery
› Battery replacement period greater than 7 years
› Fully field-upgradeable software

*Front View with sled

*Rear View