

Viasat BEYOND Encryption

Edge Solutions



KIV-79

Mode 5 Micro-IFF Crypto Appliqué

- › NSA certified to SECRET and below for IFF Mode 5 interrogator and transponder functions
- › Fully programmable, software-upgradeable algorithms, key management, and security updates
- › AIMS 04-900A Option B interface compatible

IFF solution for power- and space-constrained applications

Leveraging Viasat's PSIAM™ cryptographic system architecture found in more than 100,000 currently deployed devices, the KIV-79 provides NSA-certified cryptographic services for Mark XIIIA Identification Friend or Foe (IFF) Mode 5 Transponders. Its ultra small size and form factor make it ideal for UXV and other small, space-constrained platforms and use cases.

The KIV-79 uses 100% commercial hardware for optimal pricing while meeting MIL-STD vibration specifications and supporting altitude, temperature, and humidity requirements for tactical use cases.

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Power	< 3W 2.5W typical, input power range is 3.1V-5.25V
Size & Weight	2.5" x 3.2" x 0.8" Physical adapter supports drop-in replacement of legacy IFF crypto applique: ~5.3oz /176 grams
Interfaces	Single 25-pin Micro-D for transponder connection AIMS 04-900A interface compatible Single 9-pin Micro-D for key fill adapter cable required for key loader connection
Performance	Over 500 transactions per second Key storage capacity 1000+

ENVIRONMENTAL CHARACTERISTICS

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



KIV-79 with adapter

ORDERING INFORMATION

Viasat Part Number 1431307

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