



Crypto Appliqué

## KIV-77

Information assurance for  
Mode 5 Identification  
Friend or Foe

The KIV-77 is the world's most prolific Mode 5 IFF Crypto Appliqué, with over 20,000 units fielded globally to provide Mode 5 information assurance and interoperability between US, NATO and allied military forces operating with MK XIIB interrogators and transponders. Our appliqué provides a common enterprise crypto solution across all airborne, ground, and maritime operational domains. It delivers significant savings in lifecycle cost, operational flexibility, and acquisition economies of scale. The KIV-77 supports easy removal and storage without disturbing the integrity of the host interrogator or transponder.



Collins has developed a software-only solution for KIV-77 to meet all Crypto Modernization 2 security requirements. This approach requires no new hardware or test equipment, and no disassembly, allowing logistics and operations to continue seamlessly. Additionally, the approach leaves the system reprogrammable for future algorithm updates.

The KIV-77 is in robust active production, with multiple acquisition vehicles and sustainment support assured through 2050.

### Key features & benefits

- Mk XIIB (Mode 5)
- NSA certified
- Interchangeable on Mk XIIB interrogators, transponders and test sets
- Seamless removal and storage ensure host remains non-CCI
- Automatic Bulk Key Loads with Electronic Key Management System (EKMS) Tier 3 devices (SDS/SKL)
  - 93 days of tagged black keys
  - 31 days of un-tagged black keys
  - Two days red stray key fill
  - Time of day, mission data
- Autonomous key rollover assures proper key selection
- Robust security features
- Comprehensive BIT



**Collins Aerospace**  
An RTX Business

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## Specifications

<b>Applique design</b>	Rapid removal leaves host equipment unclassified.	
<b>Mode 5</b>	Encrypt / Decrypt	
<b>Size</b>	3.5 x 4.25 x 1 inches	
<b>Weight</b>	16 ounces	
<b>Host power</b>	5 VDC 2.2 W nominal	
<b>Battery back up</b>	All key, Mission data, Time of day	
<b>Battery life</b>	6 months minimum (operational) 5 years minimum (storage)	
<b>Interfaces</b>	Mode 5	Serial IAW 04-900A
	Keying	EKMS 308/608, DS-101, Cold Fill
<b>Programming</b>	NSA signed software load	
<b>Security</b>	Unclassified / CCI while keyed	
<b>MTBF</b>	72,930 hours	



Learn more at [rtx.com/collinsaerospace](https://rtx.com/collinsaerospace)

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Statistics based on internal and external test reports.

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