



QRTK3A/B NG

IFF Mode 4 / Mode 5 Crypto Unit for Transponders

QRTK3A NG "Panel Mounted" and QRTK3B NG "Applique" Crypto Unit provides simultaneous cryptographic encryption / decryption features for IFF Mode 4 and Mode 5 operations.

QRTK3A/B NG can be used with a wide range of Transponders. QRTK3A/B NG are compatible with DTCH, SKL and other DS-101 fill devices and supports Black Keys management.

QRTK3A/B NG

IFF Mode 4 / Mode 5 Crypto Unit for Transponders

Main features

- NATO MKXIIA Crypto Unit for IFF Transponder
- Upward compatibility with QRTK3A/B (Mode 4 only)
- Compliant with STANAG 4193
- SECAN certified in 2016
- AIMS certification in progress
- Unclassified CCI even when keyed
- Use NATO algorithm
- Selected for A400M, Mirage 2000, Gazelle, Puma, NH90, Tiger, Naval platforms
- ITAR Free

Mode 4 / Mode 5

- M4 / M5 Encrypt & Decrypt
- Simultaneous M4 / M5 processing
- Simultaneous Encryption / Decryption

Crypto keys

- Legacy M4 key fill in DS102
- M4 / M5 Key and time fill in DS101
- Compatible with Type A “Untagged” and Type B “Tagged” keys
- M4 / M5 Red Traffic Encryption Keys (TEK)
- M4 / M5 Black Traffic Encryption Keys (TEK)
- M4 / M5 Red Key Encryption Keys (KEK)

Technical specifications

- NSN:
 - 5810 14 560 6880 (QRTK3A NG)
 - 5810 14 560 6882 (QRTK3B NG)
- Mount type:
 - QRTK3A NG “Panel Mounted”
 - QRTK3B NG “Applique”
- Size (WxHxD):
 - 201 x 35 x 146 mm (QRTK3A NG)
 - 200 x 45 x 127 mm (QRTK3B NG)
- Weight < 1 kg
- Black color
- Key hold by 7.2V Lithium battery, up to 1 year
- Main power (from Host): 28 VDC / 5 W max.

Key fill device compatibility

- DTC3-1, DTH, DTCH
- Any legacy Mode 4 Key Loader such as KOI-18, KYK-13
- Any Tier3 Device compliant to NATO ICD such as AN/CYZ-10 Fill V4.09 / V5.7 or CT3, DTD 2000 CT3, SKL V7.2 or higher

Transponder compatibility

- STR 2000, LTR400
- INDRA TXP 2000
- THALES TSC 2032 / 2002 / 2052 / 4000

Test Bench compatibility

- SRPM NG

Compliance

- MIL-STD-810F
- Electromagnetic MIL-STD-416C / 462
- TEMPEST SDIP-27 Level A
- DO-178B Level D
- DO-254 Level D