



HENSOLDT QRTKxNG Family

QRTKxNG is a family of cryptographic computers for IFF NATO Mode 4 and Mode 5 operations. QRTKxNG are AIMS and SECAN certified. QRTKxNG cryptographic computers can be used with a wide range of IFF host equipment, such as Interrogators, Transponders and CITs, as well as IFF testers and key loaders. QRTKxNG can equip IFF sub-systems of all types of platforms: Airborne, Naval, Ground Radar Stations and Air Defence systems.

HENSOLDT

- A major player in IFF Mode 5 technology
- European OEM leader in mode 4/5 crypto

Main Features

- ITAR-free
- Short lead time delivery
- Fully compatible with all types of keys
- Compliant with any key / time loader
- Easy to install - plug and play
- Key hold by internal battery
- Management of up to three months of keys

QRTKxNG Family



Operational

The QRTKxNG, when plugged on transponder, interrogator or CIT, allows NATO IFF Mode 5 and/or Mode 4 processing.

Equipped with its own battery, the QRTKxNG manages:

- up to 3 months of keys,
- internal time maintained up to 96 hours.

Easy to use, the QRTKxNG provides BITE, time of day and all the IFF requested data. The battery replacement is done without any TAMPER event.

Technical Data	QRTK3BNG	QRTK4NG	QRTK6NG
Main features	NATO MKXIIA Crypto Unit for Transponder	NATO MKXIIA Crypto Unit for IFF Interrogator, Transponder and CITs	
		Internal CIK	External CIK
	<ul style="list-style-type: none"> • Compliant STANAG 4193 • Unclassified CCI even when keyed • Use M4 and M5 NATO algorithm • ITAR free • M4 / M5 Encrypt & Decrypt IFF messages • Simultaneous M4 / M5 processing • Simultaneous Encryption / Decryption 		
Crypto keys	<ul style="list-style-type: none"> • 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 and Black Traffic Encryption Keys (TEK) – Red Key Encryption Keys (KEK) 		
NSN	5810 14 560 6882	5810 14 560 6884	5865 14 571 7717
Mount type	"Applique"		
Size (W x H x D)	200 x 45 x 127 mm	157 x 104 x 75 mm	150 x 43 x 82 mm
Weight	1.04 kg	1.10 kg	0.60 kg
Power	Key retention by 7.2 V Lithium battery, up to 1 year		Key retention by 3,6 V Lithium battery, up to 1 year
	Main Power (Host): 28 VDC / 30 W max (5 W nominal)		Main Power (Host): 15 VDC / 3 W max
Key/Time loader Compatibility	<ul style="list-style-type: none"> • DTH, SKL, RASKL, KYK-20 • Any legacy Mode 4 Key Loader such as KOI-18, KYK-13 • Compliant to ICD for Mark XIIA IFF Mode 5 System Tier 3 Devices – dated 10 / 02 / 2017 		
Platforms compatibility	STR 2000	INT- 2000 CIT 25A / 25D	MSR1000I All platforms compatible with KIV-78
	LTR	TSA 2512 / 3522 / 2522 / 2542 / 1412 / 1422 CIT TSB 2512 / 2522 / 2542	
	TSC 2032 / 2002 / 2052 / 4000	SSR AZR BST	
	TXP 2000	MSSR 2000I	
Maintenance Test Bench	SRPMNG		
Ramp Tester		BT11000I	IFF 45TS (with KIV-78 Adapter)
			AN-USM 708 EDITION 3 (with KIV-78 Adapter)
Most important compliance and certification	<ul style="list-style-type: none"> • MIL-STD-810 F – Electromagnetic MIL-STD-416C / 462 • TEMPEST SDIP-27 Level A • EC Marking • SECAN certified 		
	<ul style="list-style-type: none"> • AIMS certified • DO – 178 C DAL D & DO – 254 DAL D 		