



HENSOLDT QRTKxNG Family

QRTKxNG is a new generation crypto Family that provides simultaneous cryptographic encryption /decryption features for IFF Mode 4 and Mode 5 operations.

QRTKxNG crypto computers can be used with a wide range of IFF host equipment, such as Interrogators, Transponders and CITs as well as for IFF testers and key loaders.

Suitable for IFF sub-system of all type of platforms: Airborne, Naval, Ground Radar Station and Air Defence systems.



Hensoldt QRTKxNG family is

- A major player with IFF Mode 5 technology and capability providers worldwide
- European leader in crypto mode 4/5 design

Main Features

- QRTK6NG Adapter is a mechanical adapter that used in conjunction with QRTK6NG crypto creates an ITAR free DoD AIMS 04-900 option A mode 4/5 crypto
- This adapter ensures a complete use of QRTK6NG with any equipment natively compatible with DoD AIMS 04-900 option A Mode 4/5 crypto
- Easy to install - plug and play
- It enables any customer owning equipment natively comparable with DoD AIMS 04-900 option A mode 4/5 crypto to use the ITAR free QRTK6NG IFF Small Mode 4/5 crypto Unit for Interrogators, transponders and CIT's
- QRTK6NG and QRTK4NG: M 4/5 crypto for CIT, Transponder or Interrogator
- QRTK3BNG: M 4/5 crypto for Transponders

QRTKxNG Family

Technical data

	QRTK3A/BNG	QRTK4NG	QRTK6NG
Main features	NATO MKXIIA Crypto Unit for IFF Transponder	NATO MKXIIA Crypto Unit for IFF Interrogator, Transponder and CITS	
			External CIK
		Compliant STANAG 4193	
		SECAN certified in 2016	
		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		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)	
NSN	NSN 5810 14 560 6880 (QRTK3ANG)		
	NSN 5810 14 560 6882 (QRTK3BNG)	NSN 5810 14 560 6884	NSN 5865 14 571 7717
Mount type	QRTK3ANG "Pannel Mounted"		
	QRTK3BNG "Applique"	"Applique"	
Size (W x H x D):	201 x 38,1 x 146 mm (QRTK3ANG)	157 x 104 x 75 mm	150 x 43 x 82 mm
	200 x 45 x 127 mm (QRTK3BNG)		
Weight	< 1,1kg	< 1,1 kg	< 0,6 kg
Power	Key holder by 7,2V Lithium battery, up to 1 year	Key holder by 7,2V Lithium battery, up to 1 year	Key holder by 3,6V Lithium battery, up to 1 year
	Main Power (from Host): 28 VDC / 30 W max (5W nominal)		Main Power (from Host): 15 VDC / 3 W max
Key loader Compatibility	DTC3-1, DTH, DTCH, SKL		
	Any legacy Mode 4 Key Loader such as KOI-18, KYK-13		
	Any Tier 3 Device compliant to "INTERFACE CONTROL DOCUMENT for Mark XIIA IFF Mode 5 System Tier 3 Devices - dated 10/02/2017"		
Platforms and companies compatibility	STR 2000	INDRA INT- 2000	MSR1000
	LTR 400	THALES TSA 2512 / 3522 / 2522 / 2542 / 1412 / 1422	
	THALES TSC 2032 / 2002 / 2052 / 4000	RUAG MSSR/IFF BST MkIV	
	Indra TXP 2000	INDRA CIT 25A / 25D	
		CIT THALES TSB 2512 / 2522 / 2542	
	MSSR 2000		
Test Bench	SRMP NG		
Use by Test bench		BTI1000I	Aeroflex 45TS (with KIV-78 connector)
Most important Compliance	MIL - STD - 810F		
	Electromagnetic MIL-STD-416C/ 462		
	TEMPEST SDIP - 27 Level A		
	DO - 178C DAL D compliant	DO - 178B Level D in progress	
	DO - 254 DAL D compliant	DO - 254 Level D in progress	