

KG-84

Military digital line encryptor

The KG-84 is an electronic encryption device developed by the National Security Agency (NSA) in the USA. It was used for ensuring secure transmission of digital data over a variety of networks, such as landlines, satellites, microwave links and Telex lines. The KG-84 was built by Pulse Engineering, Inc. and Bendix.

Two versions of the KG-84 are known. The KG-84A that was mainly used for point-to-point encryption via telephone lines, microwave links and satellites, and the KG-84C that was a Dedicated Loop Encryption Device (DLED).

Both are able to operate in simplex, half-duplex and full-duplex synchronous and asynchronous modes. This NSA Level 1 crypto device is suitable for secret messages up to the level of TOP SECRET, depending on the key-set that is loaded. It is fully compliant with NSA TEMPEST standards.



Compared to the KG-84A, the KG-84C had some interesting extras. It has a variable update counter, improved HF performance, out-of-sync detection (when in synchronous mode), asynchronous cipher text, plaintext bypass, and the European Telex protocol. When used with a suitable digital telephone unit, the KG-84 could also be used for secure voice transmissions.

Data could be handled by the KG-84 in asynchronous mode at rates between 50 and 9600 baud. In synchronous mode, it could even go up to 32,000 baud (or even 64,000 baud when used in combination with an external clock). A later version of the KG-84, the commercial KIV-7, was suitable for even higher data rates.

The KG-84 was a Controlled Cryptographic Item (CCI) but was UNCLASSIFIED when unkeyed. Although most of the military KG-84 units have now been replaced by commercial-off-the-shelf equipment (COTS), such as the KIV-7, or were superseded by modern IP-Crypto equipment, they are not commonly found in museums. The image on this page was taken from a surplus KG-84 front panel. The rest of the machine is, unfortunately, missing.



Kiv 7 User Manual

Daniela Niemeyer



Kiv 7 User Manual:

Operator and Field Maintenance Manual for KIV 7M Programmable, Multi-channel Encryptor (NSN 5810-01-530-2811) (EIC:N/A) (for Release 2.0, Revision C) United States. Department of the Army,2008 Manuals Combined: COMSEC MANAGEMENT FOR COMMANDING OFFICER'S HANDBOOK, Commander's Cyber Security and Information Assurance Handbook & EKMS - 1B ELECTRONIC KEY MANAGEMENT SYSTEM (EKMS) POLICY , Over 1 900 total pages Contains the following publications COMSEC MANAGEMENT FOR COMMANDING OFFICER S HANDBOOK 08 May 2017 COMSEC MANAGEMENT FOR COMMANDING OFFICERS HANDBOOK 06 FEB 2015 Commander s Cyber Security and Information Assurance Handbook REVISION 2 26 February 2013 Commander s Cyber Security and Information Assurance Handbook 18 January 2012 EKMS 1B ELECTRONIC KEY MANAGEMENT SYSTEM EKMS POLICY AND PROCEDURES FOR NAVY EKMS TIERS 2 3 5 April 2010 EKMS 1E ELECTRONIC KEY MANAGEMENT SYSTEM EKMS POLICY AND PROCEDURES FOR NAVY TIERS 2 3 07 Jun 2017 EKMS 3D COMMUNICATIONS SECURITY COMSEC MATERIAL SYSTEM CMS CENTRAL OFFICE OF RECORD COR AUDIT MANUAL 06 Feb 2015 EKMS 3E COMMUNICATIONS SECURITY COMSEC MATERIAL SYSTEM CMS CENTRAL OFFICE OF RECORD COR AUDIT MANUAL 08 May 2017 *MILCOM 2000* ,2000 *Army TENCAP Into the 21st Century--* ,1996 **Department of Defense Appropriations for 1997: Military personnel programs, National Guard and Reserve programs, medical programs, readiness of United States forces** United States. Congress. House. Committee on Appropriations. Subcommittee on National Security,2000 Commerce Business Daily ,1998-03 Department of Defense appropriations for 1997 United States. Congress. House. Committee on Appropriations. Subcommittee on National Security,2000 *Department of Defense Appropriations* United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1997 *Book Parts* Dennis Duncan,Adam Smyth,2019-06-27 What would an anatomy of the book look like There is the main text of course the file that the author proudly submits to their publisher But around this hemming it in on the page or enclosing it at the front and back of the book there are dozens of other texts page numbers and running heads copyright statements and errata lists each possessed of particular conventions each with their own lively histories To consider these paratexts recalling them from the margins letting them take centre stage is to be reminded that no book is the sole work of the author whose name appears on the cover rather every book is the sum of a series of collaborations It is to be reminded also that not everything is intended for us the readers There are sections that are solely directed at others binders librarians lawyers parts of the book that if they are working well are working discreetly like a theatrical prompt whispering out of the audience s ear shot Book Parts is a bold and imaginative intervention in the fast growing field of book history it pulls the book apart Over twenty two chapters Book Parts tells the story of the components of the book from title pages to endleaves from dust jackets to indexes and just about everything in between Book Parts covers a broad historical range that runs from the pre print era to the digital

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