

# **MULTI STANDARD DATA ENCRYPTION EQUIPMENT**

CM109WB has been designed to protect digital data conveyed over different types of point to point link. CM109WB meets the requirements of DISBEE standard (Digital Intermediate Speed Bulking Encryption Equipment) and is approved for the protection of all levels of NATO classified information. The wide range of available interfaces and the option of loading different algorithms make this product suitable for any type of network architecture and traffic requirements.

The device has a modular construction: the case has two physically separated slots, and each of them can host a crypto module or a power supply module. The power supply module can feed up to five crypto modules.

This allows to create the best configuration to fulfill any installation needs, choosing among the "Crypto+Crypto", "Crypto+PS", "Crypto+empty" configurations.

## **MAIN FEATURES**

- Encryption equipment for point -to-point links
- Strong mechanical structure for data communication security in military applications
- NATO approved algorithm up to TOP SECRET
- National approved algorithm up to SECRET
- Availability of different DTE/DCE
- Local and remote functionalities to manage the traffic keys
- Equipped with CIK device to quickly declassify the equipment to CCI
- Anti tampering mechanism
- Emergency keys erasing switch
- Remote and local control inter face
- Internal diagnostics (BITE)
- Environmental/EMC/TEMPEST in compliance with military standards.



## **CM109WB**



## FEATURES

#### General

Multi-standard digital encryption equipment approved for the protection of all levels of NATO classified data conveyed over different types of point-to-point links (radio or cable connection).

COMMUNICATIONS INTERFACES	
EUROCOM from 64 Kbps to 2048 kt	2005
ITU-T V11/V35 from 48 Kbps to 2048	,
ITU-T G.703 at 2-8-34 Mbps (HDB3 (	
INTEROPERABILITY	
Bulk encryption equipment belo	onging to CM109 family
Equipment compliant to DISBEI	
KEY MANAGEMENT	
Manual key loading via FILL cor	nnector
Remote black key loading via R	S232 serial control inter face connected to a PC
windows compatible	
Number of storable key variable	es: 60
Number of key update permitte	d: 99
Manual and automatic key char	nge-update procedures
Internal back-up battery for key	preservation in case of power failure
SECURITY	
NATO approved algorithm up to	TOP SECRET
National approved algorithm up	to SECRET
Proprietary (on request)	
Anti-tampering	
TEMPEST tested	
Emergency keys erasing	
Equipment enabling by CIK; CC	when CIK is removed
MANAGEMENT	
Local via keypad and display or	
	ol inter face connected to a PC windows compatible
Built-in test equipment (BITE)	
	er to verify that there is no passage of clear traffic
from red to black side	
Transparent mode to test the co	ommunication line
Diagnostic via serial control line	RS232
ELECTRICAL FEATURES	
AC input	115/220 VAC ±15% 45-63 Hz
DC input	24/48 VDC nom. ±15%
Power requirement of a	18W max
single crypto unit	

Up to 5 Crypto Units can be powered by as single Power Supply unit

#### PHYSICAL DATA

The entire chassis has two physically separated module, and each of them can host a crypto unit or a power supply module

Dimensions	483W x 470D x 46H mm (entire chassis)
Weight	9 kg max
Installation	19" standard rack (with assembly kit)
ENVIRONMENTAL DATA	
Environment	According to MILSTD-810D
Operating Temperature	-40°C to +55°C
Storaging temperature	-55°C to +70°C
Humidity	95% (non-condensing)

## ANCILLARIES

#### FG101

FG101 is a por table device used to store a maximum of 8 red keys or a maximum of 4 encrypted keys, and to transfer them to crypto device. It is endowed with a battery that allows storage of the keys for up to one year.

Line inter face in compliance with EUROCOM D/1 Crypto Supplement

Transfer protocol	DS102
Internal battery	BA1372/U 6.75V -BA5372/U 6V.
Dimensions	75 x 150 x 45 mm (H x L x D)
Weight	0.6 kg.

### **TR101**

TR101 is a por table punched tape reader for the transfer of the keys on tape. It is endowed with an internal battery that has duration of one year.

Line inter face in compliance with EUROCOM D/1 Crypto Supplement

Transfer protocol	DS102
Internal battery	BA1372/U 6.75V-BA5372/U 6V.
Dimensions	60 x 150 x 45 mm (H x L x D)
Weight	0.7 kg



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