

CM109WB
MULTI STANDARD ENCRYPTION





CM109WB MULTI STANDARD ENCRYPTION

DESCRIPTION

CM109WB has been designed to give maximum data protection for each communication means.

The wide range of available interfaces and algorithms make this product suitable for any type of network architecture and traffic requirements.

CM109WB can store up to 60 crypto variables: key downloading is performed by a mobile transfer device (reader or fill gun).

The mechanical structure and the environmental performance allows for different installation types, for

example, in shelters, in tracked and wheeled vehicles, in airframes, in tents or in the open air.

The high level of integration, flexibility and the low maintenance costs, have given a highly successful product.

MAIN FEATURES

Encryption device for military tactical applications.

- Data communication security applications
- NATO approved algorithm
- Interfaces for different available connections
- Functionalities to manage the keys
- Anti tampering functions
- Remote and local control, internal diagnostics (BITE)
- Environmental/EMC/TEMPEST in compliance with military standards.

TECHNICAL SPECIFICATIONS

Applications

- Secure communications between switch/multiplexers on radio connections or cable connections.

Interfaces

- EUROCOM, from 64 to 2048 kbps
- ITU-TV.11/V.35, from 50 kbps to 2 Mbps
- ITU-T G.703 2 Mbps, 75/120
- ITU-T G.703, 8 Mbps
- ITU-T G.703, 34 Mbps.

Encryption algorithm

- NATO approved
- Nationally approved.

NATO Interoperability

- NATO approved DISBEE devices.

Other features

Management

- Auto-diagnostics:
 - Power-on self-test
 - On-line BITE
- Local control: by keypad/ display on the front panel
- Remote control channel: RS232; Baud Rate: 150 bps to 19200 bps
- Alarms: floating relay contact.

Power supply

- Battery: 24/48VDC nom. $\pm 15\%$
- Power requirement: 35W Max.

Physical data

- Dimensions: 440H x 400P x 45H mm. (each single box holds two slots)
- Weight: 8 kg max.
- Environment: according to MIL-STD-810D
- Temperature:
 - 25°C to +55°C operating
 - 40°C to +70°C storage
- Humidity: 95% (non-condensing)
- EMI/EMC: according to MIL-STD-461/2
- TEMPEST: according to AMSG 720B
- Installation: in 19" racks (with assembly kit).

Key Management System KS109

System elements associated with the CM109 crypto device:

- Personal computer (COTS / MOTS)
- Tape puncher (optional)
- Software application packets to generate, distribute and manage the keys
- Network supplier 115/220 Vac $\pm 15\%$ 45-63 Hz; 21-32 Vdc to supply up to five CM109WB.

Functions

- Encryption keys generation
- Encrypted keys management and storage by PC
- Encrypted keys transmission by the network management system, by fill gun or floppy disk.

Ancillary devices: FG101

FG101



FG101 is a portable device used to store a maximum of 8 keys in compliance with the EUROCOM D/1 Crypto Supplement, or a maximum of 4 encrypted keys.

It is endowed with a battery that allows storage of the keys for up to one year.

- Line interface in compliance with the EUROCOM D/1 Crypto Supplement
- Internal supply battery type: BA1372/U 6.75V-BA5372/U 6V.

Physical data

- Dimensions: 75 x 150 x 45 mm (H x L x D)
- Weight: 0.6 kg.

TR101



TR101 is a portable punched tape reader used to transfer the keys on tape in compliance with the EUROCOM D/1 Crypto Supplement.

It is endowed with an internal battery that has a duration of one year.

- Line interface in compliance with the EUROCOM D/1 Crypto Supplement
- Internal supply battery type: BA1372/U 6.75V-BA5372/U 6V.

Physical data

- Dimensions: 60 x 150 x 45mm (H x L x D)
- Weight: 0.7 kg.



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CODE S-124/V1/03

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