

EPROM - CASSETTE

FEATURES

- Portable and detachable
- Non-volatile
- No moving parts, unmatched reliability
- Operates in random-access-mode at full EPROM memory speed with no additional intermediate memory requirements
- Minimum read/write circuit required
- Erasable by ultra-violet light
- Insensitive to electrical and magnetical fields
- Combined identification label and light shield
- Capacity range from 32k...458k Bit
- Single 5V supply voltage

APPLICATION

- Program and data storage in numerical control systems, testing equipment etc.
- Storage of application oriented program and data portions in systems without inherent portable memory facilities.
- Any application requiring portable memory under severe environmental and handling conditions.

DESCRIPTION

The VMC110-A/B EPROM-cassette contains from 32k...458k Bit of Erasable Programmable Read Only Memory. Various memory capacities are available in increments of 2048 16-bit words on the VCM110-A type cassette and in increments of 4096 16-bit words on the VCM110-B type cassette.

The cassette is designed to operate as system memory in random access mode at full EPROM memory speed.

Special protection of the relevant signal terminals excludes damage due to static discharge. Provisions are made that allow cassettes to be interchanged without power interruption.

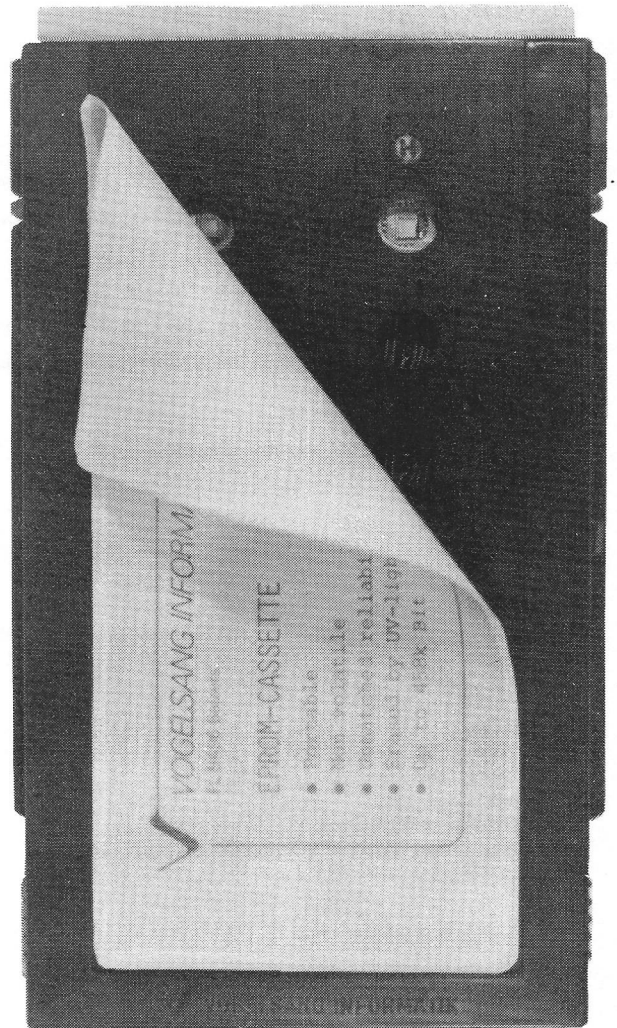
The necessary circuits for status check under program control are provided, allowing to detect specific cassette types and proper cassette insertion.

A label holder allows for convenient visible identification of cassettes.

Programming of the cassette is being done electrically via the appropriate signal terminals.

To erase a cassette the label holder is to be removed in order to expose the windows of the built in EPROM-circuits for erasure by an UV-lamp.

The use of the proved EPROM-technology makes this portable memory exceptionally reliable under the severest environmental and handling conditions (comparable magnetic technologies may be susceptible to quite low magnetic exposure, impairing the reliability of such devices if used in the vicinity of iron or any other ferro-magnetic substance).



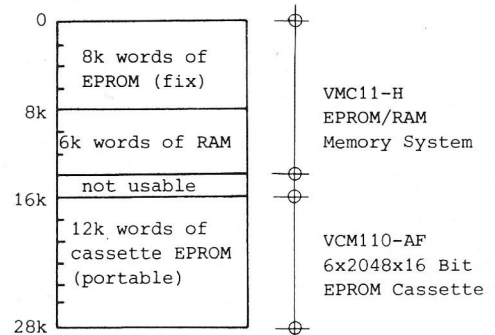
SYSTEM-INFORMATION

The standard VCM110-A/(B) EPROM cassettes (16-bit word organization) are designed for use in combination with the EPROM/RAM memory system VCM11-H/(J) and the EPROM-Programmer option VMP11-A, which plug directly into PDP-11/03* and LSI-11* backplanes.

The EPROM/RAM memory systems VMC11-H/(J) may contain up to 14k/(28k) word of EPROM and/or RAM. It also provides all the electrical and mechanical means to directly interface to the VCM110-A/(B) EPROM cassettes.

The EPROM-Programmer VMP11-A is an option required to enable programming of the VCM110-A/(B) EPROM cassettes.

Memory map of typical memory system with cassette:



* TM of Digital Equipment Corporation

SPECIFICATIONS

ELECTRICAL

- Supply voltage +5V \pm 5%
- Supply current

Type: VCM110-A A B C D E F G
 standby: 20 40 60 80 100 120 140 mA typ.
 active: 210 270 330 390 450 510 570 mA max.

Type: VCM110-B A B C D E F G
 standby: 20 40 60 80 100 120 140 mA typ.
 active: 350 400 450 500 550 600 650 mA max.

- Access time 450 ns
- Dose for erasure 15 Ws/cm² min. at 2537 Å

ENVIRONMENTAL

Operating temperature 0°C to 55°C
 Storage temperature -40°C to 85°C
 Relative humidity 10% to 96% non-condensing

MECHANICAL

Size: 100x170x16 mm
 Eurocard compatible
 Rugged plastic cassette
 Removable label holder for convenient UV-erasing

ORDERING INFORMATION

Part No.	Size
VCM 110-AA	1 x 2048 x 16 Bit EPROM-Cassette
VCM 110-AB	2 x 2048 x 16 " " "
VCM 110-AC *)	3 x 2048 x 16 " " "
VCM 110-AD	4 x 2048 x 16 " " "
VCM 110-AE *)	5 x 2048 x 16 " " "
VCM 110-AF	6 x 2048 x 16 " " "
VCM 110-AG *)	7 x 2048 x 16 " " "
VCM 110-BA *)	1 x 4096 x 16 Bit EPROM-Cassette
VCM 110-BB *)	2 x 4096 x 16 " " "
VCM 110-BC *)	3 x 4096 x 16 " " "
VCM 110-BD	4 x 4096 x 16 " " "
VCM 110-BE *)	5 x 4096 x 16 " " "
VCM 110-BF	6 x 4096 x 16 " " "
VCM 110-BG *)	7 x 4096 x 16 " " "

*) non standard, available on special order

VCM 110-RH set of identification label and holder (100 pieces)
 VCM 110-RA UV-lamp with cassette tray