

DANSK DATA ELEKTRONIK  
ID-7002 2k STATIC RAM MODULE  
for the  
ID-7000 MICROPROCESSOR SYSTEM

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## ID-7002 2k STATIC RAM MODULE

### 1. Introduction.

ID-7002 is a 2k-8bit static writeable memory module. The memory chips used, can be INTEL 2102 or compatible types. The contents of the memory can be write-protected by means of a switch on the module.

Appendix 1 contains a logic schematic of the module.

### 2. Description.

#### 2.1 Addressing.

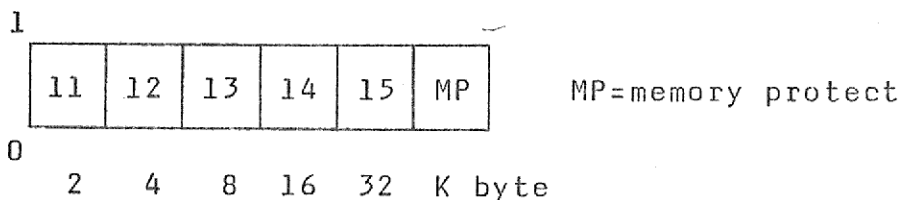
This module uses 2k consecutive addresses of the possible 64k memory. The address of the module is set by a 5 bit switch register on the card.

The bits on the address bus are used in the following manner:

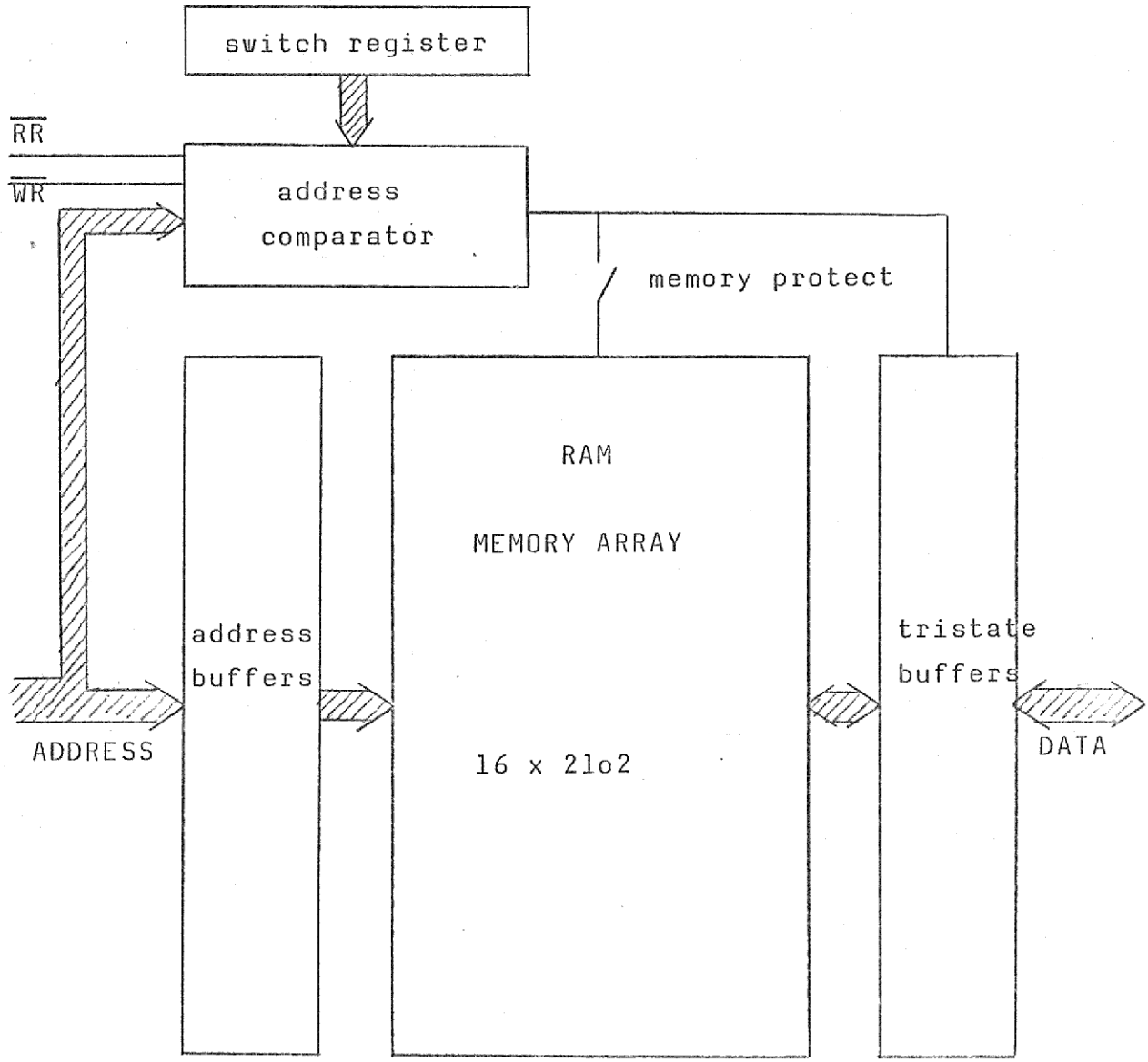
- ADR(15:11) determine if the actual memory board is selected. This happens if ADR(15:11) and the manual switch register are identical.
- ADR(10) selects one of two 1k memory banks
- ADR(9:0) select one 8 bit word from the addressed memory board.

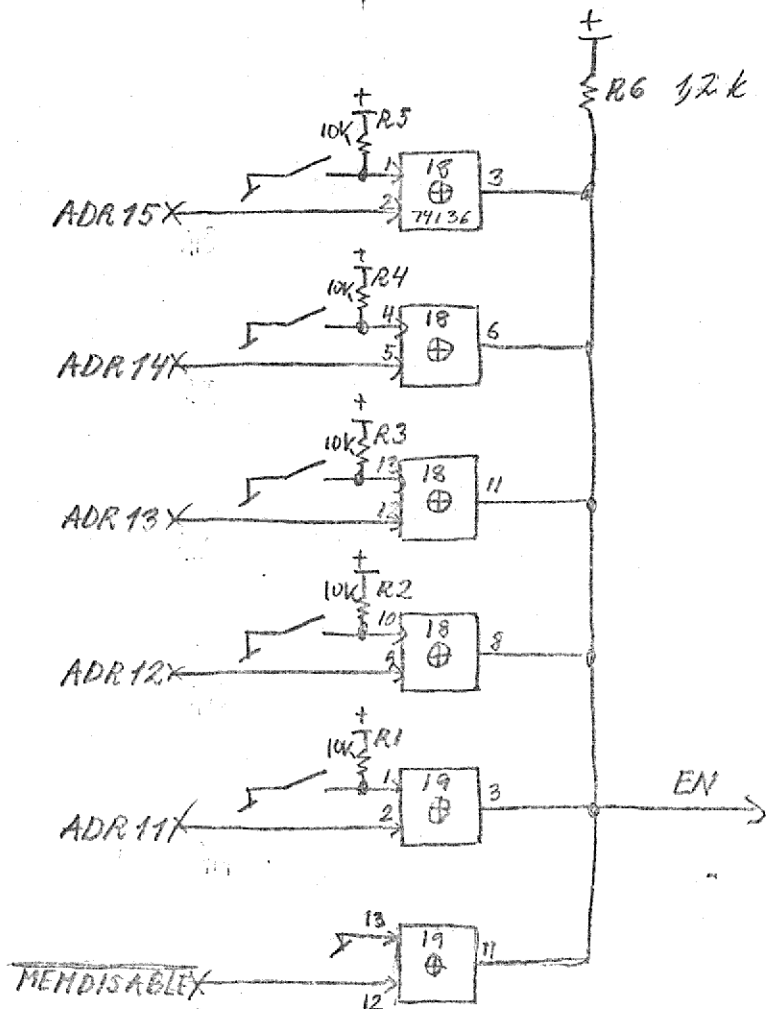
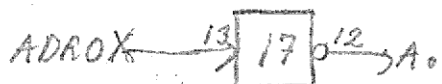
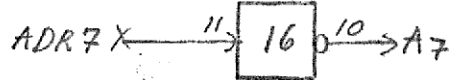
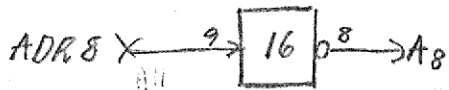
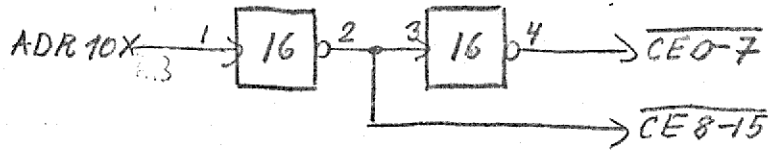
#### 2.2 Switch register.

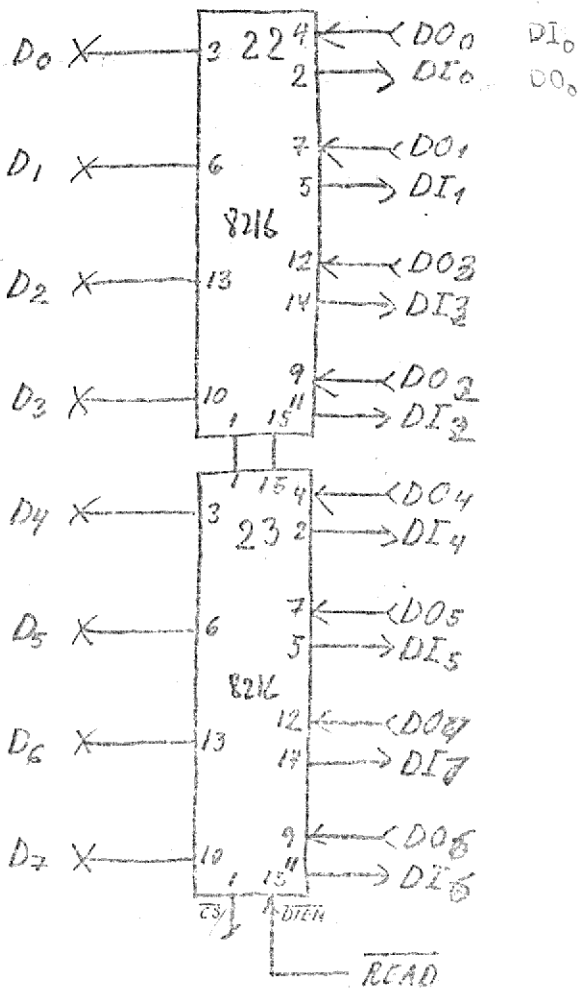
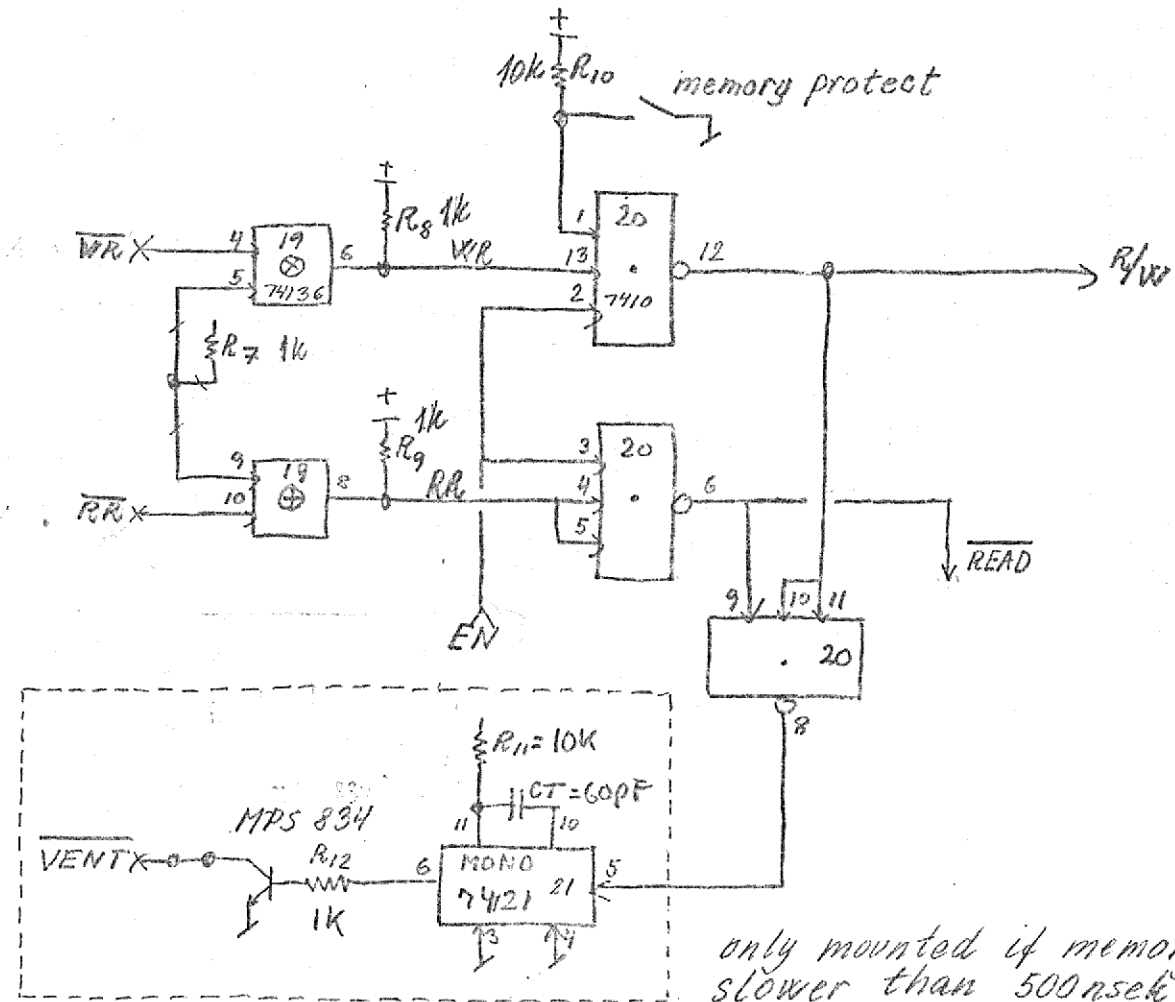
The manual switch register is situated in the upper left corner of the module. The setting of the register determines which 2k addresses the module incorporates.

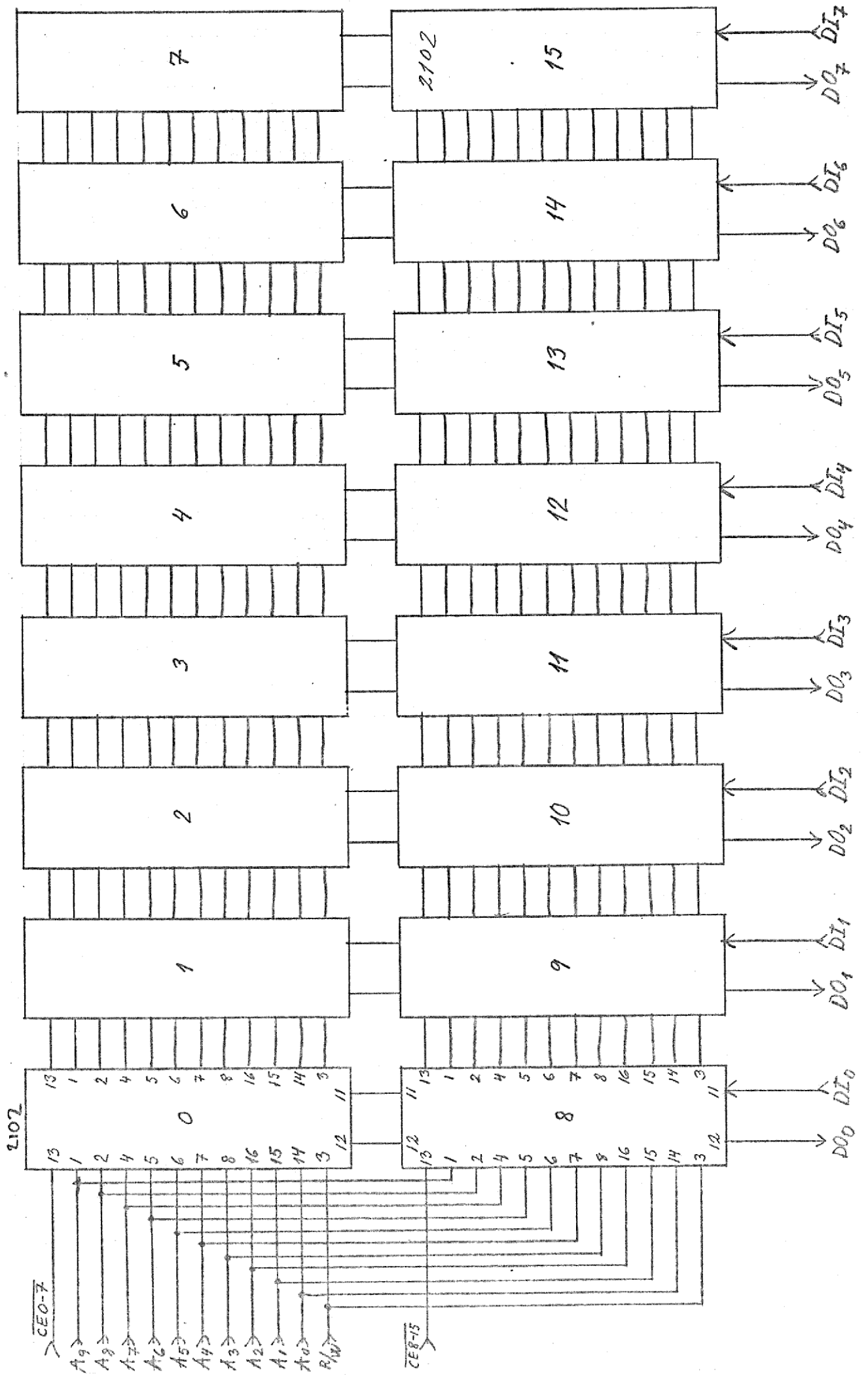


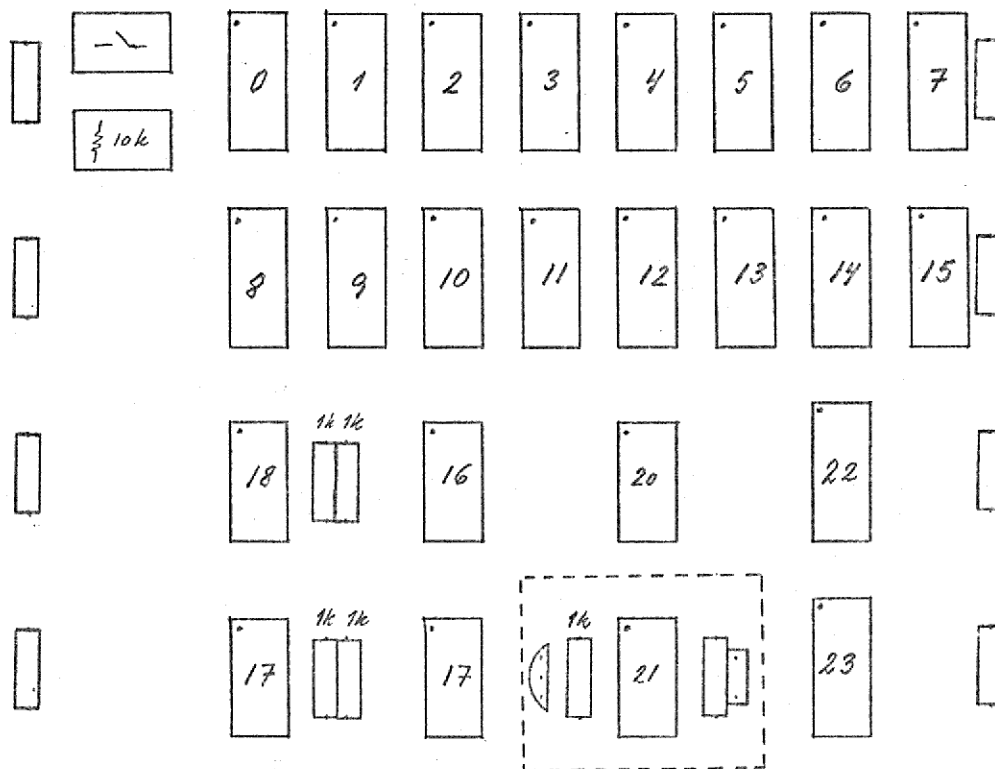
The start address of the module will always be a multiple of 2048. The memory protect switch inhibits writing in the memory if the switch MP is in the 1 position (red)











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