

DESCRIPTION

4018 is a system module for double board computer applications to service system interval timing. It is used to control periodic program monitoring and in general to supply real time to the software system. Optional on-board crystal oscillator is available for the users that require rigid timing. The option grants an accuracy of 1. PPM.

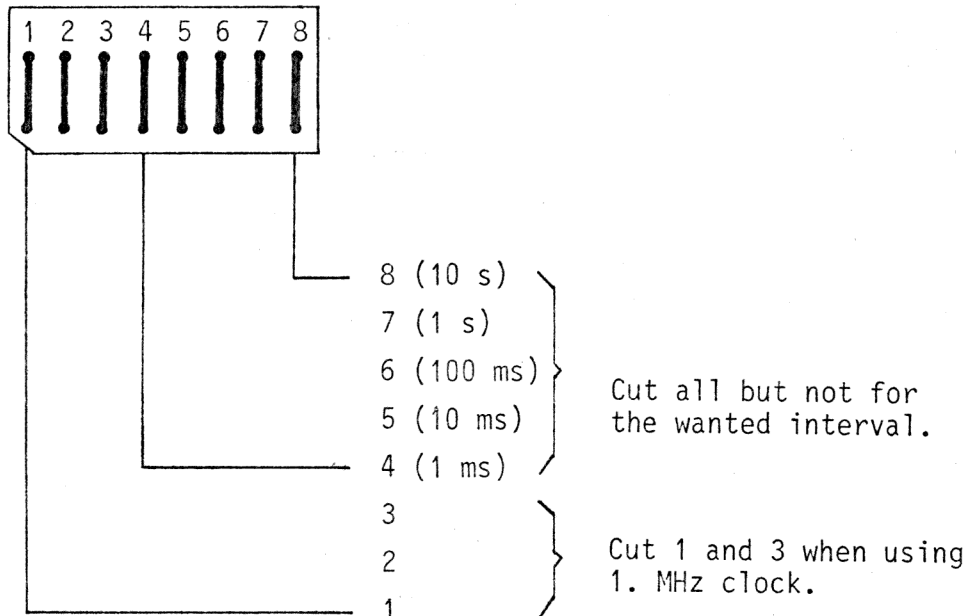
Alternative intervals for most applications requirements are available. The user selects the timing interval on an on-board jumper plug. The selections depends on the incoming clock frequency. A direct time-base (pin 25A) or a system clock (pin 4A) is used. The time-base goes straight to the interval selection - the secondary frequency divider. The system clock is connected to a primary frequency divider, which is the case when using the 1. MHz clock of the bus or the on-board crystal controlled clock. Refer to the block diagram. Normally systems make use of the 1. MHz clock, which is prewired and ready to be used at the first I/O slot position of the standard backplanes. The on-board 10 MHz clock is jumpered in the backplane from pin 3A to 4A at the slot position used (the 1. MHz clock must be removed if the first I/O slot).

The block diagram shows the intervals to your disposal when using the 10 MHz or 1 MHz clocks. In the former case you use four divider steps i.e. cuts the jumpers 1 and 2. In the latter case you cut the jumpers 1 and 3. The you select, as shown, the interval from the secondary divider group.



OPTIONAL FUNCTIONS

The interval timing is selected by jumpers on the on-board jumper plug, location 3B.



STATUSBIT D0



The jumper B1 provides alternative D0 reading as follows:

Jumper B1/a) The interval status is read on every STAT-command.

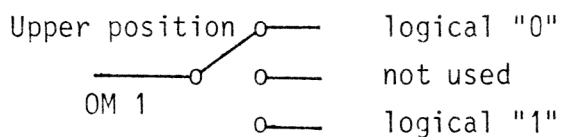
Jumper B1/b) The interval status is available only when the appropriate channel selections is valid.

No jumper) The interval timing is not available in the statusword.

The jumper B1 is located at the crosspoint of the IC:s 1A - 2B and 1B - 2A.

PROGRAMSWITCH - OM1

The state of the switch is indicated by D1 in the statusword.



CHANNEL SELECTION

The channel selection, performed by the CS-command, is determined by the card identity code, which is selected on the code plug - location 2D. See further about coding the System Manual.