CPU3 (68030) Processor Card Memory Expansion for the 93XX Series Scopes

Memory SIMM's of 4, 8, 16 and 32MB can be used in the CPU3 68030 (LeCroy PCB assembly 9302-1) board in singles or on pairs.
The memory SIMM's are 72 pin EDO (*E*xtended *D*ata *O*ut) non parity memory.
The primary SIMM Slot for the CPU03 board is Slot A (The bottom most slot).
Note that CPU2 68020 boards (LeCroy PCB assembly (9300-1) are fixed at 2MB and can not be expanded.

The author has successfully used two 32MB SIMMS to upgrade the memory to the maximum supported amount of 64MB. This is the LeCroy MWP (*M*ega *W*aveform *P*rocessing) Option. All that is required for the option is the presence of 64MB of system RAM. You can find details about the MWP option in the group files section.

You can find sellers on e-bay that sell this type memory on a regular basis.

As of the time of this writing, (14-Nov-2009), you can purchase 128MB (4 of the 32MB SIMMS) for well under $40.00USD. It's always good to have spares.

The 32MB ones that I purchased were used in Compaq Computers. They are labeled with Compaq part number 185207-002. They have 8 chips on each side of the PCB see Fig 1.

Jumper Settings for the CPU3 PCB (LeCroy Assembly 9302-1) are in Fig 2-5 below. Note that Standard LeCroy Memory options were 4, 8, and 64MB. The other settings worked in my 9354AL. However some brands of memory may not work, you'll just have to try them. Mine were 60nS speed SIMM's
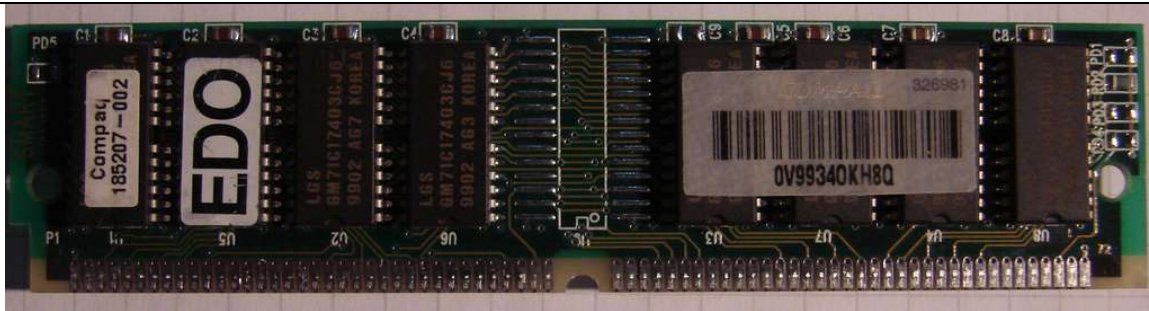

FIGURE 1 - 32MB 72pin Non-Parity EDO SIMM
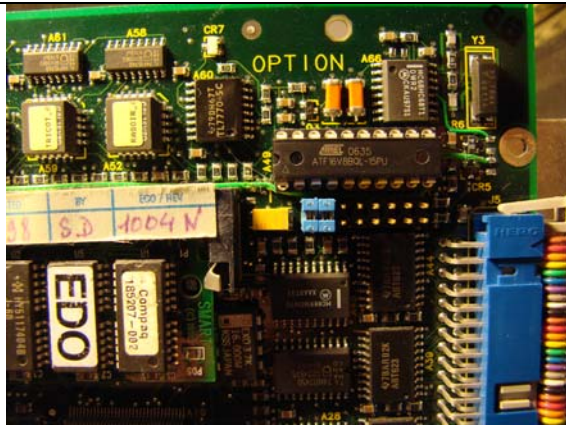

Slot A 4MB or Slot A and B 4MB SIMMS (8MB Total) Note: Both Jumpers are Vertical
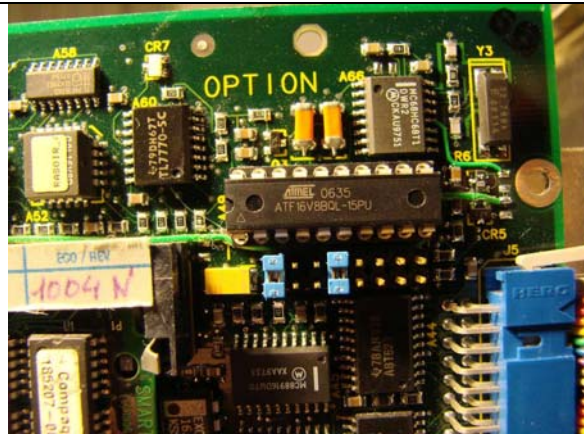
Figure 2 – 4 to8MB System Memory

Slot A 8MB or Slot A and B 8MB (16MB total) Note: Both Jumpers are Horizontal

Figure 3 – 8 to 16MB System Memory

16MB Slot A or 16MB Slot A and B (32MB Total) Note: Both Jumpers are Vertical

Figure 4 – 16MB or 32MB System Memory

32MB Slot A or 32MB Slot A and B (64MB Total) MegaWaveformProcessing Option Memory

Figure 5 – 32MB or 64MB System Memory


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14-Nov-09                                    STATUS
11:17:58
                                        ┌──────────────┐
                                        │ Acquisition  │
Serial Number 935402685                 │ System       │
                                        │ Text & Times │
Soft Version   9354AL  08.2.2           │ Waveform     │
    Thursday, January 13, 2000 11:36 AM │ Memory Used  │
    (build 72 crc c6a96952)             └──────────────┘
                                        ┌──────────────┐
Soft Options                            │ Software     │
    WP01   WP02   WP03   DDM   CKIO   PRML   ORM   DDFA │ Options      │
    MATE   MC01                         └──────────────┘


Hard Options
    GPIB   R232   CLBZ   FD01   GP01   CENT   HD01   CPU3 ┌──────────────┐
    I2C                                                   │ MORE VERSION │
                                                          │ INFORMATION  │
                                                          └──────────────┘



Main Processor RAM size:   64M bytes
Acquisition Memory size:    2M data points per channel

                                                        500 MS/s

                                              □   AUTO
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Figure 6 – Screen capture of 9354AL system status showing 64MB System RAM, All available software and most hardware options (except clock trigger) and with the latest version (8.22) firmware.