

The Mega Speedy has a number of different modes or emulations build in. They are selected by a rotary encoder after a cold boot. This means, powering on the unit or pushing reset starts the configuration program. See the rest of this document for what that looks like.

Rotating the encoder cycles through all modes. Every mode (except Flash = FL) has 4 slots for the firmware. The size of these firmware slots is the same as the firmware of the emulated hardware.

For example, the emulation of the original unit offers a firmware slot size of 4K. And if the original hardware had a bank switching mechanism, so will the emulation.

The hardware of any of the emulated enhancements has been put into the programmable logic and is a 100% functional replacement. None of the hardware is protected by any copyrights, provided that it's not a 100% clone of the original PCB's. Obviously this is not the case.

The firmware is another story.

We do not own the rights of all of the emulated hardware.

To prevent any claims, only if we have the rights, the firmware will be in the Mega Speedy.

(However the user can program any firmware into any slot, provided he owns the original hardware. This can be done using the flasher menu.)

There is one exception concerning the rights; the original firmware of the 1050 unit.

This firmware was installed, regardless of the firmware ownership. The reason for this is very simple. The drive used to be an original 1050 once and had a firmware on board. So the claim that any user has inherent rights to use the original firmware seems warranted.

The order of the emulations is as follows:

FL; y1; y2; y3; y4; S(1-4); E(1-4); o(1-4); t(1-4); H(1-4); U(1-4); A(1-4); d(1-4); u(1-4); and then FL again.

By rotating the selector clockwise, the above sequence can be "rolled" through. And pushing the knob stores the selection and activates it. If the selection is on the display and the knob is not pressed, the selection will be activated after 3 seconds. But it will not be stored.

This is what it may look like after a cold boot:



Original Speedy mode slot 1 selected.

Part of the standard delivery.

It has the track display, density indication and the buzzer available.

All 4 slots have a function when booted with the latch open.



Super Speedy slot 1 selected.

In the standard delivery.

Features Super copy program when booted with latch open. (Text in German language)

192K of Ram, can copy a disk in one go.

And of course there's a track display, density indication and buzzer.



Mega Speedy slot 1 selected.

Part of the standard delivery.

This mode has 32k Firmware slots and 448K of Ram available.

Also track display, density indication, buzzer, speed selection, fuzzy sectors and printer port are available to the hardware emulation.

However there's no firmware to support all these hardware features yet.



Original 1050 slot 1 selected.

Part of the standard delivery.

Slots 1 to 3 are used for the revision K, L and M of the original firmware. Slot 4 has rev. K as well.

This emulation does not have the display available in the hardware, so the display will stay dark.



Turbo 1050 slot 1 selected.

Part of the standard delivery.

This includes a menu when booted with latch open.

The speed selection and printer interface are also available and supported by firmware of course.

It does have the buzzer but no track or density display.



Happy slot 1 selected.

Not in standard delivery, user must upload firmware into these slots.

It has been tested with:

Slot 1 without display.

Slots 2 and 3 with the track display and density indication, slow and fast mode software.

The emulation has the track and density display available.

It is emulated using a BCD to 7 segment decoder.



US-Doubler slot 1 selected.
Not in the standard delivery.
No display emulated.



Super Archiver slot 1 selected.
Not in the standard delivery.
This includes support of the speed selection and writing Fuzzy / Weak sectors.



Duplicator 1050 slot 1 selected.
Part of the standard delivery.



SuperMax slot 1 selected.
Not part of the standard delivery.
There are 2 slots tested in this mode, one fast and one slow step rate.
As in all other modes, 4 slots available.



Flasher slot selected.

Part of the standard delivery.

Needed for selection without display and for flashing any slot.

It also contains the boot menu with the flasher software, the MyPicoDos and the floppy config for the Atari.



Indication in speedy modes, means No Floppy.

Red and Green density Led's are on now.