USB Floppy Emulator V3
Replace floppy disks with USB flash drive

Nearly all manufacturers of disks and floppy disk drives have stopped their production.

It is now possible to exchange your conventional floppy disk drive for a USB - floppy emulator.

In place of the susceptible disks the data is stored on much more reliable USB sticks.

This maximizes the remaining life of your machine, thus protecting your investments.

Because of the complexity and diversity of the recent developments in recording formats most of them are incompatible with each other. Particularly in the computer industry itself many special formats exist alongside the standard disc formats; in total over 500 disc formats exist. The ipcas USB Floppy Emulator V3 works without file system interpretation. The disc data is stored onto container files; this means that proprietary recording formats are able to be implemented.
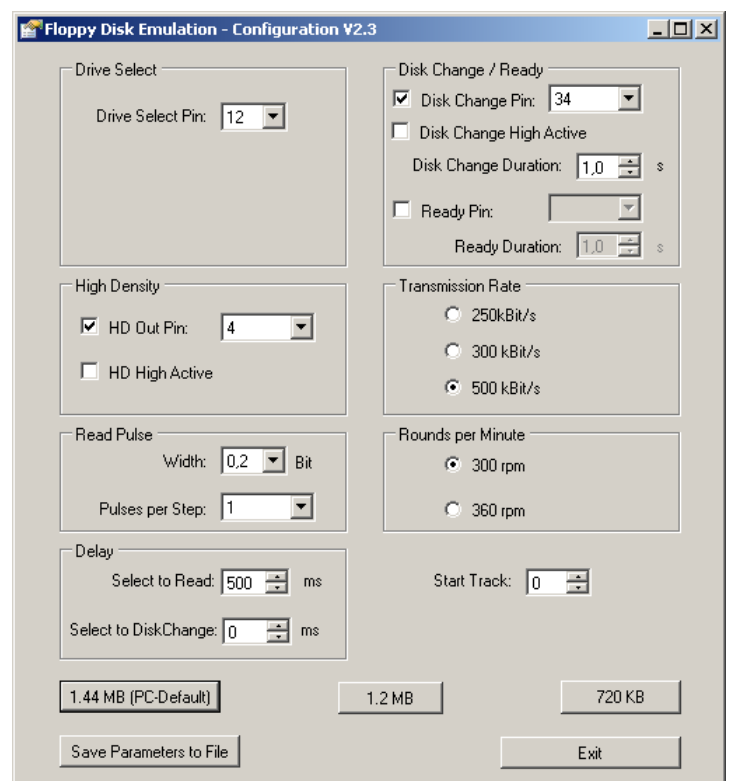
Through simple configuration (Parameter data) it is possible to configure several parameters, for example rate of transmission, speed of rotation and pin assignment (including Drive Select, Disc Change, Ready and HD Output)
By use of the USB-Stick the configuration can be transferred on to the floppy emulator.

With a conventional floppy disk drive settings would have to be made over a jumper or would not be possible at all. The USB floppy emulator V3 allows for a full configuration without having to either open or take out the drives.

The most significant features in summary:

- Configuration without jumpers
- Proprietary data formats are supported (no file system interpretation)
- Discs are written as container files
- Write-protection for floppy disc image
- Recognition of last disc at power on
- Template for new images (template image)
- Various transmission rates
- Various speeds
- No movable parts

Environmental influences such as magnet-fields, dust, humidity or even oil have almost no detrimental effect on the USB floppy emulator or the USB storage.
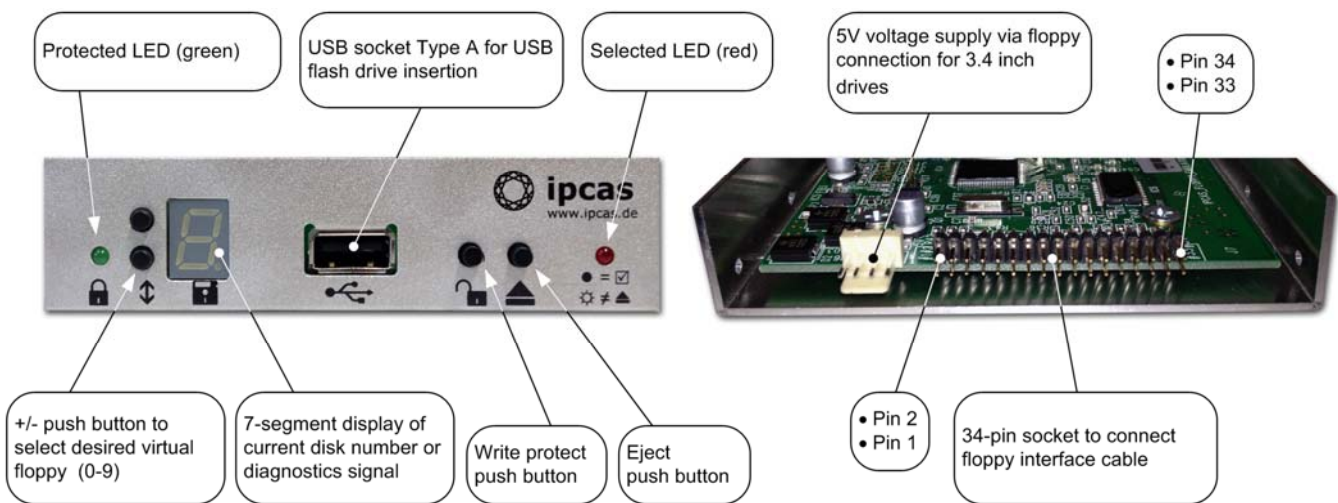
The USB Floppy Emulator is suitable for all devices that use a floppy disc drives. The conventional floppy disc drive is exchanged one to one. The connections are identical which means no major changes need to be made.

The ipcas USB Floppy Emulator V3 supports up to 10 active disc images on one USB stick. Of course it is possible to store additional data onto the USB stick. By copying the container files it is possible to create backups which can be saved on the USB stick or simply additional storage for images.

The last used disc image will be read from the floppy emulator.
The usb stick can remain unplugged until re-writing back the image (from internal memory to the usb stick) The last used image from the floppy will be selected automatically from the device as soon as the Stick is re-inserted.

Specifications

USB Floppy Emulator	Built -in version
Interfaces	➢ 1 x USB socket type A ➢ 1 x 4-pin socket for voltage supply ➢ 1 x 34-pin socket board for 3.5" standard floppy controller connection
Compatibility	➢ Transmission Rate: 500kb/s, 300kb/s, 250kb/s ➢ Rounds per Minute 300 or 360 ➢ Usable as Boot Disk approx. 20 s after power up
Diagnostic LEDs	Selected, Protected
Display	1-digit 7-segment display to show current virtual floppy and diagnostic
Voltage supply	5 V DC (voltage range 4,5 – 5,5 V DC) 4-pin-voltage supply socket for 3.5 inches drives
Housing	aluminum housing
Frame size	3.5 inches
Measurements W/H/D	Approx. 100mm / 25mm / 122mm
Temperature range	0° C to 65° C
Reative humidity	5 % to 90 % non-condensing
Scope of delivery	USB Floppy Emulator, USB flash drive containing: Floppy Configuration Tool, feitool (floppy emulator image tool for FAT12) User Guide
Purchase rder number	0202042-10

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Subject to change without prior notice