



SDCard HxC Floppy Emulator

Product brief Version 2.1-21/01/12

Universal Floppy disk drive emulator / replacement solution!

- Replace 8", 5"1/4, 3"1/2 and 3" floppy disk drive:
 - Replace 180KB, 360KB, 720KB, 800KB, 1.2MB, 1.44MB disks and many others!
- Emulate/Replace most of standard & non standard disk formats :
 - HD (MFM 500K)
 - DD (MFM 250K/300K)
 - SD (FM 250K/300K)
 - Amiga format.
 - E-mu format.
 - And many others!
- Can emulate TWO floppy disk drives with one emulator!
- Support SD/SDHC Card up to 32GB.
 - FAT32 based : Freely browsable under Windows/Mac OSX/Linux...
- New!: 3"1/2 form factor! (Release date: February 2012 preorder open!)

→ Support a large variety of computers / keyboards / samplers / CNC machines

>>> Works with most of computers, musician's keyboards/samplers and industrial robots/machines! <<<

Updated support list: http://hxc2001.free.fr/floppy_drive_emulator/support.htm

Your hardware is not present in this list? Please contact us! Your hardware is probably already supported!

→ Multi Volumes/Floppy Images support

- Can store thousand of virtual floppy disk on a single SDCard! Capacitance examples:
 - More than **8000** 1.44MB floppy disk images on a 32GB SDCard!
 - More than 16000 720KB floppy disk images on a 32GB SDCard!

→ Advanced User interface

- 2*16 LCD + 3 buttons:
 - Embedded file image Browser.
 - Embedded file image renaming function.
- Optional host software browser available for Amiga, Atari ST and Amstrad CPC computers
- Floppy disk drive sound emulation.

→ Wide software / tool support

- Floppy images manager software: More than 60 file images types supported!
- Floppy disk reader/dumper software: Create floppy disks images from your floppy disks and archive them!
- VFD support : Browse DOS/FAT type floppy images under Windows!

Open project

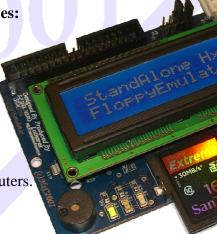
- Support forum : http://torlus.com/floppy/forum/
- Wide user community!: The project exist since 2006!
 - http://hxc2001.free.fr/floppy_drive_emulator/pictures/index.html
- Software / firmware regularly updated!:
 - http://hxc2001.free.fr/floppy_drive_emulator/index.html#download
- Something is missing? A special need? Don't hesitate to contact us! We are maybe able to develop it! **Email:**

hxc2001@hxc2001.com



HxC Floppy Emulator Project
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http://hxc2001.com/
http://torlus.com/floppy







The SDCard HxC Floppy Emulator is an universal 3", 3"1/2, 5"1/4 and 8" Floppy disk drive emulator based on SDCard. Most of disk format can be emulated by this emulator:

High density (HD - MFM), Double densisty (DD - MFM) and Single density (SD - FM) floppies are supported. Most of non-standard and standard track/sectors layout are supported. Special track format like Amiga or E-mu track are also supported in both read & write access.

This make this device very versatile and thanks to its flexibility the SDCard HxC Floppy Emulator support most of computers, industrial/CNC machines, musician's keyboards and samplers. Some examples of supported hardware can be found on this page: http://hxc2001.free.fr/floppy_drive_emulator/support.htm

The HxC Floppy Emulator software allows you to create/convert your floppy images files or read a floppy disk for the emulator. The floppies images for the emulator can be generated from floppies images, floppy disk read, or from spares files (FAT/DOS floppy generator). The list of supported file images type can be found on this page: http://hxc2001.free.fr/floppy_drive_emulator/#FILESSUPPORTED





Floppy interface:

HE10 34 pins floppy connector:

- ► Shugart compatible mode supported.
- ▶ PC compatible mode supported.
- ► Two floppy disk drives emulation.

Power supply:

- ► 5V +/- 10% standard power floppy connector input.
- ► 500mA max. (80mA in standby).

User Interface:

- ▶ 3 LEDs ("Power LED", "Floppy access LED", "SDCard access LED").
- ▶ 3 buttons ("Next", "Select/Eject", "Previous").
- ▶ 1 audio transducer. (Head Step and User interface sound).
- ▶ Detachable (Rev C) 2*16 chars Alphanumerical LCD.

(Note: LCD and buttons can be put on an external front panel)

▶ On Screen display software available for Amiga, Atari ST and CPC computers.

SDCard support:

- ►SD Card up to 2GB.
- ► SDHC Card supported up to 32GB.

SDCard Filesystem:

► FAT32 supported. Subdirectory and long name file supported.

Read / Write support:

Track mode based floppy emulator (Full track pre-encoded in the HFE image file)

► Read support:

Most of existing formats (FM/MFM/Amiga/E-mu track...) supported. Custom tracks supported.

▶ Write support:

ISO MFM (DD/HD) 128/256/512/1024Bytes sector write supported. ISO FM (SD) 128/256/512/1024Bytes sector write supported. Amiga Write support since the revision C. E-mu Write support since the revision C.

Floppy bitrate supported:

- ► 250/300Kbits/s (SD/DD floppies)
- ► 500Kbits/s (HD floppies)

(others bitrates possible)

(Note: Variable bitrate not supported for the moment. So protected floppy disk image (IPF and STX file format) file support will be only partial! If you are looking for a device supporting IPF / STX please a have a look to the <u>USB HxC Floppy Emulator device</u>)

RPM.

▶ 300 RPM, 360 RPM supported. (any others RPM possible).

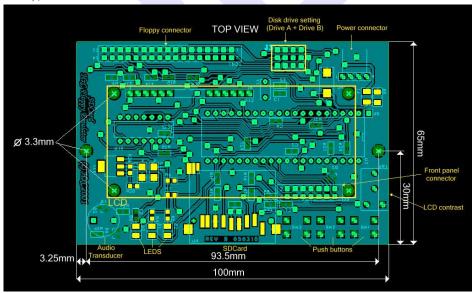
Tracks / Side:

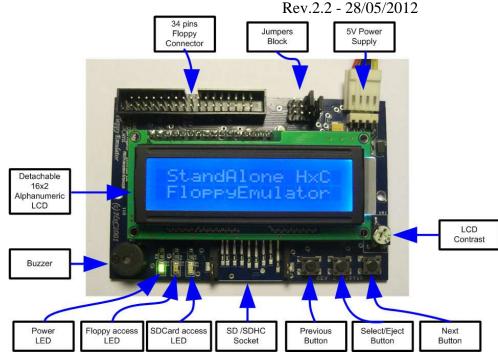
- ▶ Up to 255 tracks per floppy.
- ▶ 1 or 2 sides.

Additional features:

- ► Firmware update via the SDCard.
- ► Last Loaded Floppy Image autostart at power up.
- ► Fast floppy image loading (<<1second), no conversion time.

Mechanical drawing (Rev C):





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Rev C SD HxC Floppy Emulator



Rev F SD HxC Floppy Emulator 3"1/2 Form factor



http://torlus.com/floppy



Some videos showing the working device

The SDCard HxC Floppy Emulator on E-mu Emulator-I and Emulator-II:

http://www.youtube.com/watch?v=txjYrfLht64

The SDCard HxC Floppy Emulator on E-mu SP1200:

http://www.youtube.com/watch?v=P61z11-LP2k

http://www.youtube.com/watch?v=TMf3xJdrGGc http://www.youtube.com/watch?v=AVfzvnjUlyw

The SDCard HxC Floppy Emulator on Korg DSS-1:

http://www.youtube.com/watch?v=X9C3__NzXHs

The SDCard HxC Floppy Emulator on Ensoniq EPS 16+:

http://www.youtube.com/watch?v=Bm7avjMSviU

 $\underline{http://www.youtube.com/watch?v=r09ZJPwi3eU}$

http://www.youtube.com/watch?v=-MoR3G4LKDc

 $\underline{http://www.youtube.com/watch?v=yM2o0W5Y0pI}$

The SDCard HxC Floppy Emulator on Ensoniq Mirage:

http://www.youtube.com/watch?v=x7lGq6uIFWA
http://www.youtube.com/watch?v=pSksCv_KOdE

Roland W-30 and HxC SD Floppy Drive Emulator:

http://www.youtube.com/watch?v=8lQBq2kYlkA

SD Floppy Emulator Roland G-800 Megafloppy:

http://www.youtube.com/watch?v=eaV7ZJaFgDE

The SDCard HxC Floppy Emulator on Oberheim DPX-1:

http://www.youtube.com/watch?v=5G9UBxyhbOU

HxC SD Card Floppy emulator + Akai MPC 2000 Classic Demo:

http://www.youtube.com/watch?v=TIbilD63qK0

Akai S950 with external SD Cardreader HxC Floppyemulator plus internal Floppydrive:

 $\underline{http://www.youtube.com/watch?v=kYXwhYYvA2g}$

SDCard HxC floppy emulator on TI99/4A:

http://www.youtube.com/watch?v=caKsYLdswCg

http://www.youtube.com/watch?v=I4C2wng7vt4

SDCard HxC floppy emulator on Amiga:

http://www.youtube.com/watch?v=XGVptbkK86U http://www.youtube.com/watch?v=p1zP6p9SBLw

http://www.youtube.com/watch?v=CzuHIM45jX8

SDCard HxC floppy emulator on Atari ST:

http://www.youtube.com/watch?v=8O74GgYcA3w

Dragon 64 connected to a HxC 2001 Floppy Emulator:

http://www.youtube.com/watch?v=pB__S8HuzOA

SDCard HxC Floppy Drive Emulator on a Jumberca Circular Knitting Machine:

http://www.youtube.com/watch?v=Q-YTY7ziph8





Sales points :

This product is manufactured and sold by Lotharek:



Ebay: http://search.ebay.co.uk/?sass=lotharek1977&ht=-1



SD Floppy Emulator REV C : http://www.lotharek.pl/product.php?pid=13



SD Floppy Emulator REV C cased black: http://www.lotharek.pl/product.php?pid=18



BUY SD Floppy Emulator REV F 3"1/2: http://www.lotharek.pl/product.php?pid=42

Contact / Project page

Project page: http://hxc2001.com/

Project/Support Forum: http://www.torlus.com/floppy/forum

Email:

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