

User Reference 1.44 MB Charmilles

Note : Prior to the use of this version of floppy to usb emulator, few noticeable things should be kept in mind.

1) When the usb flash drive is not plugged in the usb port of emulator, the front display of floppy emulator will display "0.0." (please notice the 2 dots in between the Zero's). These dots play very important role in this version of floppy emulator. These dots should disappear when you plug-in the usb disk in the port of floppy emulator. Without the usb plugged in the usb, floppy emulator should show these dots. If after plugging in the usb disk these dots do not disappear, means that the usb disk you are using is not compatible with this version of floppy emulator. As this version of floppy emulator treats the usb single floppy disk and processes the data sector by sector and track by track, these floppy drive emulators perform data access at same speed of floppy drives. The recommended flash drives are those which are USB 1.0 backward compatible like Kingston, HP. **We suggest not to use Sandisc / Transcend make usb disks**.

2) Another important thing to keep in mind before we start with these floppy emulators is that the usb disk **should be formatted in 1.44 MB** format size using the floppy formatting software (either in single block of in multi-block version). If we do not format the usb disk, it will not be read in floppy emulator. On the front of this floppy emulator it has two switches. These switches perform task of changing the virtual discs when usb is plugged in. Tens is for moving from 00 – 10 – 20 – 30 ,,, 90 , and units is fort 00 , 01 , 02,,, 09. So if you want to move from 00 to 25 , press tens twice and units 5 times. Also recommended is to change the block number to 00 while unplugging the flash disk.



Features : 1.44 mb floppy drive emulator

* Can read and write in non-dos formats alongwith FAT12, FAT16, FAT32

* Can store data of upto 100 floppy disks on a single USB drive

* Reads and writes the usb like physical floppy disk (sector by sector and track by track)

* Supports ready signal and slow motor read speed

* Supports boot floppy function

* Write back process directly writes treating usb as floppy disk

Using the usb as Floppy emulator to Read and write data in the machine

Before we proceed 2 steps to be confirmed

1) **Check that the emulator has been set for your Charmilles Machine:** Jumper settings provided in the mail (If not provided please mail for these settings else the emulator will not work)

2) Make sure that the flash drive is formatted in 1.44 MB partitions using special formatting software provided in CD. The Kingston USB flash drive shipped alongwith Emulator is already Pre-formatted into 1.44 mb partitions and is ready to use. In few Charmilles (Non-Dos/BX8 format) machines you might need to format the usb flash drive in the Charmilles machine (by swapping the emulator with currently installed FDD) before you can start the process of data transfer.



3) At Computer end:

a) **In case of FAT based Charmilles Machines:** You can directly insert the USB flash drive in Computers USB port and start working. Using the formatting software (Floppy.exe provided in CD under software folder) select the block in which you would like to copy the data that has to be used in the floppy emulator installed in the equipment. As you select the required partition on the usb flash drive using the floppy to usb software, the selected partition will become active and can be referred with the drive letter of usb flash drive. Once the folder has been selected, copy the data or the needed files to be input in floppy drive to usb from source computer to the USB Flash or otherwise in the selected partition of USB disk.

b) **In case of Non-Dos based Charmilles Machines:** You will have to install another emulator in place of FDD in computer, so that you can access the Non-dos data using the Charmilles/3rd party app, as used to be done in floppy disks.

4) **After finished the file copy from Computer:** Insert the flash drive in the usb port of floppy emulator. As you insert the flash in usb the display will change from 0.0. to 00 , reflecting that the usb has been accepted by floppy drive emulator. You can just starting reading of writing the necessary files directly from the usb disk. In this version of floppy any changes are directly done on the flash drive. The green indicator (BUSY) will be on while reading and writing. You can change the disc number on the emulator on the run. Once the green indication is off, you can change the floppy partitions on the run, by just pressing the buttons in front. Floppy0 on computer = 00 , floppy1 = 01, floppy99 = 99 on emulator. Make sure that you reset the counter to 00 when you have to remove the usb flash disc from the emulator

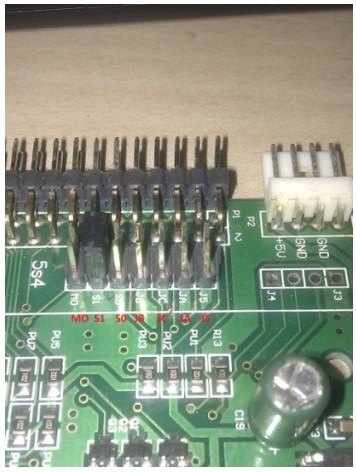


Specifications of Floppy Drive to USB

Successful alternative for 1.44 mb with Non Dos Support and Boot Floppy disk option

- USB as floppy Interface Options - 34 Pin
- Physical Dimensions of floppy to usb - Standard 3.5"
- Operational Voltage - +5 Volt DC

Using the Jumper Settings



There are several 7 jumper locations available at the back of emulator labeled as MO, S1, SO, JB, JC, JA, J5.

a) S1, SO are drive select locations
b) JA for Ready Signal- as few of the devices need this ready signal.
c) MO is for motor enable

Product Tested on:

Charmilles Robofil 190 / 440CC / 640CC/ 240SL



Making USB Flash drive Bootable

You can use Steps provided in CD in folder name **"How to Make Bootable USB Flash drive from Floppy Disk".**

There are 2 methods suggested.

1) FloppyImage Software

In this you will have to install a floppy emulator in computer also as it supports Imaging of A: and extracting that Image in A:. This is recommended in case of Non-Dos platforms.

2) WinImage Software

You can download the demo version : http://www.winimage.com/download/winima85.exe

This is recommended for in case od dos (FAT) based boot disks. In this you will not have to install a floppy emulator in computer also as it supports Imaging of A: and extracting that Image directly on USB flash drive. This is recommended in case of Dos platforms. In case you adopt this method for Non-Dos platforms you will have to install the USB emulator in computer too, and extract the image on floppy drive (A:).

***** Currently we have not been able to define the process of making BX8 type system boot disks. We are working on same with Technicians and the update shall be send as we are done with the process.**

In case you come thru the process, please suggest us. Your efforts will be appreciated and will be helpful to many other users World-Wide.