

XTA2SD-Card

How to set the CHS parameters for low level formating in file C:/AA/AA/lowlevel.hex

Put Drive Parameters
of chosen Drive Type
in here (must be one
of the BIOS types)

Cylinder LSB 8 Bit

977 (example for 40 MB drive)

Cylinder MSB 2 Bit

977

Heads

5

Drive Type 00 to 03

2

Do not alter outside
green or blue area !

Drive 0	→	0x00:	D1 03 05 02	20 20 44 72 69 76 65 20 30 20 20 20	Ñ... Drive 0
Drive 1	→	0x10:	D1 03 05 02	20 20 44 72 69 76 65 20 31 20 20 20	Ñ... Drive 1
DrvType 0	→	0x20:	64 02 04 00	20 20 44 72 76 54 79 70 65 20 30 20	d... DrvType 0
DrvType 1	→	0x30:	67 02 06 01	20 20 44 72 76 54 79 70 65 20 31 20	g... DrvType 1
DrvType 2	→	0x40:	D1 03 05 02	20 20 44 72 76 54 79 70 65 20 32 20	Ñ... DrvType 2
DrvType 3	→	0x50:	67 02 04 03	20 20 44 72 76 54 79 70 65 20 33 20	g... DrvType 3
		0x60:	20 20 20 20	20 20 20 20 20 20 20 20 20 20 20 20	
		0x70:	42 79 74 65	20 31 26 30 20 43 79 6C 20 20 20 20	Byte 1&0 Cyl
		0x80:	42 79 74 65	20 32 20 48 65 61 64 20 20 20 20 20	Byte 2 Head
		0x90:	42 79 74 65	20 33 20 44 72 76 20 54 79 70 65 20	Byte 3 Drv Type
		0xA0:	42 79 74 65	20 34 2D 31 35 20 4E 41 20 20 20 20	Byte 4-15 NA
		0xB0:	20 20 20 20	20 20 20 20 20 20 20 20 20 20 20 20	
		0xC0:	32 30 32 32	20 20 43 6F 70 79 72 69 67 68 74 20	2022 Copyright
		0xD0:	50 65 74 65	72 20 57 69 6C 6C 68 F6 66 74 20 20	Peter Willhöft
		0xE0:	20 20 20 20	20 20 20 20 20 20 20 20 20 20 20 20	
		0xF0:	20 20 20 20	20 20 20 20 20 20 20 20 20 20 20 20	

These are the
Standard XTA
Drive Parameters,
Check with
BIOS of XTA
Computer and
correct here if
necessary

XTA2SD: How to do low level formatting

- Get Drive type table of the XTA computer, e.g. with: `sstor /romlist`
- Put SD-Card in Windows PC
- Put in drive table parameters of drives in `C:/AA/AA/lowlevel.hex` file
- Put in chosen drive parameters of Drive 0 and 1 in `lowlevel.hex` file
- Put SD-Card in XTA2SD-Card board
- Start XTA computer with floppy or XT-IDE card, teensy will check if drive parameters are changed
- If yes, do the following, if not : goto last item
- start fdisk and delete existing partition
- with fdisk create new partition
- Restart XTA PC with floppy or XT-DIE card
- Format drive (here you can see if new drive type has been installed)
- Do a full scandisk, to see if all is ok
- Now the drive is ready for normal operation
- To get a bootable drive: change Parameter 0x1BE in Partition Table of MBR to 80