



SprinterTM

ZX Spectrum mode

PETERS PLUS

Introduction.

ZX Spectrum mode created for using software written for computer popular in 80-th and 90-th years. Full compatible with Spectrum clones: Pentagon 128, Pentagon 512, Scorpion 256.

You will not found many differences between using Spectrum mode and using real Spectrum.

But Spectrum mode of Sprinter has new features:

1. Fast change model of Spectrum clones
2. Using several RAM-disks
3. Using MS-DOS FAT16 compatible floppy and hard disks
4. Change frequency of CPU (3.5MHz/21MHz)

You should run spectrum.exe file or run TRD file for activating Spectrum mode.

We recommend you change system.bat file if you plan use Spectrum mode only.

Spectrum mode will started after Sprinter power on if you registry path to spectrum.exe file in system.bat file.

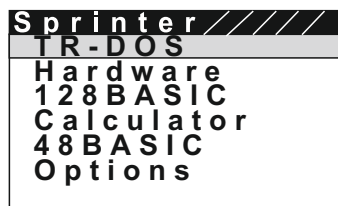
For example:

C:\spectrum\spectrum.exe

You can use <F12> key for change frequency of CPU (3.5MHz/21MHz)

You can use <Ctrl>+<Alt>+<Delete> for restart your Spectrum mode.

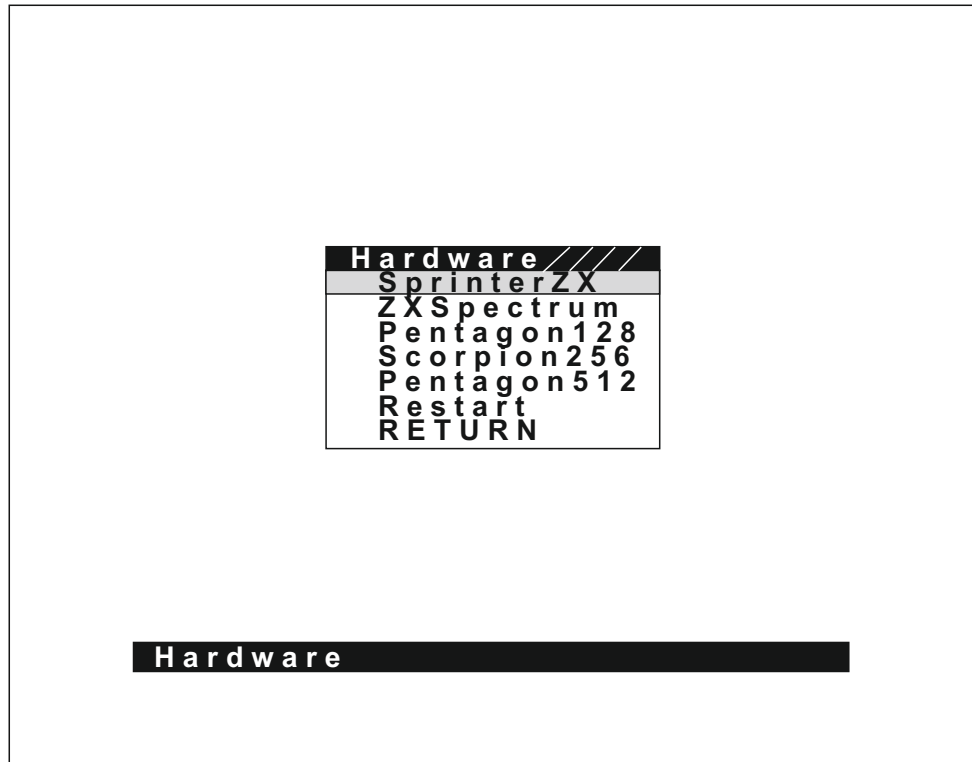
Main Menu.



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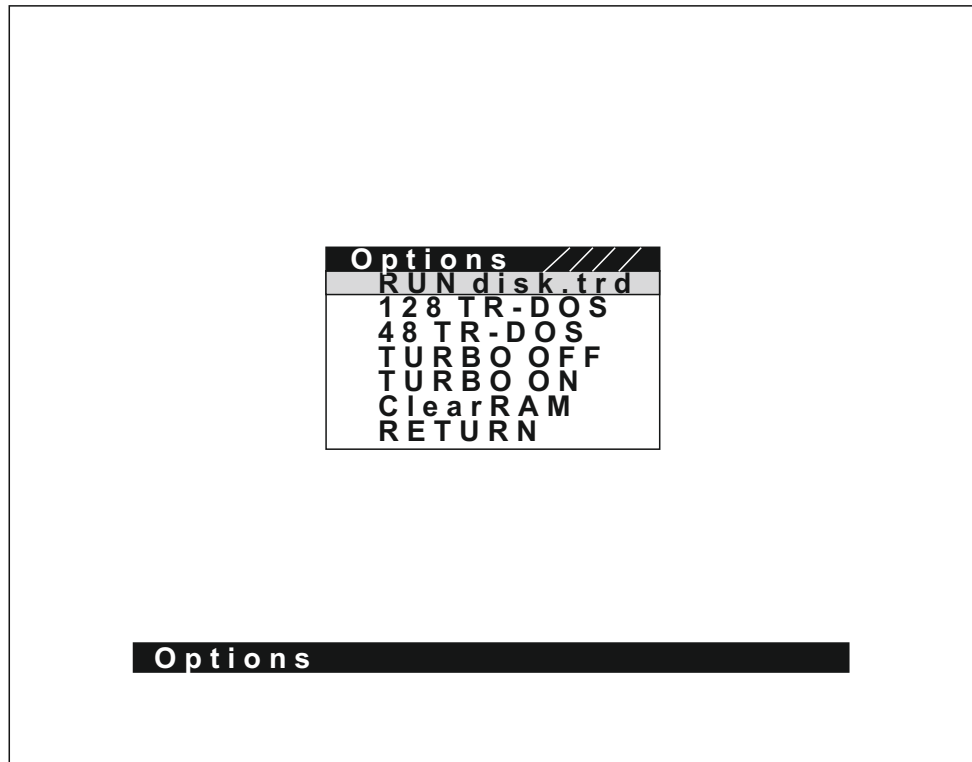
1. TR-DOS - Entry in command prompt TR-DOS.
2. Hardware - Choice of Spectrum clone.
3. BASIC 128 - Entry in editor of Basic 128Kb (use <Tab> for submenu).
4. Calculator (use <Tab> for submenu).
5. BASIC 48 - Entry in editor of Basic 48Kb.
6. Options - More actions.

Hardware Menu.



1. Sprinter ZX - Special mode of Sprinter work
 - Scorpion-256 is enable
 - Spectrum screen is enable
 - DAC (port 4Fh) is accessible
 - Extended graphic screen is accessible
 - Ports of extended memory is accessible
 - ACCELERATOR is nonaccessible
2. Pentagon 128 - Russian Spectrum clone with 128Kb RAM.
 - port 1FFDh is nonaccessible
 - Pentagon screen synchronization
3. Scorpion 256 - Russian Spectrum clone with 256Kb RAM.
 - port 1FFDh is accessible
 - Scorpion screen synchronization
4. Pentagon 512 - Russian Spectrum clone with 512Kb RAM.
 - port 1FFDh is accessible
 - Pentagon screen synchronization
5. Restart - Restart of computer Sprinter. You will not lost your Ram-disks
6. RETURN - Go to the Main Menu.

Options Menu.



1. RUN disk.trd - Load and start file “disk.trd” from default device.
2. 128 TR-DOS - Start BOOT.B file from current device with RAM 128Kb
3. 48 TR-DOS - Start BOOT.B file from current device with RAM 48Kb
4. TURBO ON - Turn CPU frequency to 21MHz and fix it
5. TURBO OF - Turn CPU frequency to 3.5MHz and fix it
6. Clear RAM - Clear Ram and kill all RAM-disks.
7. RETURN - Go to Main Menu.

New TR-DOS commands.

All new TR-DOS commands begin from “/”

X - simbol of your RAM-disk on can create 16 RAM-disks from “E” to “T”

/FDD - Connect FDD current device.

/HDD - Connect HDD to current device.

/RMD X - Connect RAM-disk to current device.

/CLEAR X - Kill RAM-disk X.

/A: (or /B: or /C: or /D:) - Choice of TR-DOS device

/HDT - HDD diagnostic.

/RD - Information about memory allocation.

/LOAD X <file.trd> - Load RAM-disk X from <file.trd> file.

/SAVE X <file.trd> - Save RAM-disk X from <file.trd> file.

Note: <file.trd> file must be created already.

/DIR - List of files from Sprinter DOS disk.

/TBOFF - Turn CPU frequency to 3.5MHz and fix it.
/TBON - Turn CPU frequency to 21MHz and fix it.
/INIT - Clear RAM and kill RAM-disks.

For example:

A:>/init - Clear RAM
A:>/b: - Change current disk to "B:"
B:>/fdd - Connect FDD to disk "B:"
B:>/load e mydisk.trd - Load file "mydisk.trd" to RAM-disk "E"
B:>/rmd e - Connect RAM-disk "E" to disk "B".
B:>RUN - Start BOOT.B file from disk "B:"

You can use new commands in command prompt and in BASIC programs. You should use standart command if you want use new TR-DOS commands in your BASIC program:

RANDOMIZE USR 15619:REM:<new TR-DOS command>

Example of creating RAM-disk:

10 RANDOMIZE USR 15619: REM:/C:
20 RANDOMIZE USR 15619: REM:/rnd G
30 RANDOMIZE USR 15619: REM: FORMAT "G" 5

Exit from Spectrum mode.

For exit from Spectrum mode use "Restart" option of Hardware Menu or use Reset button on case of your computer.

Sprinter keyboard in Basic 48 mode

| | | | | | | | | | | | | |
|--------------|-------------------------|-------------------------|-----------------------------|-------------------------|---------------------------|---------------------------|--------------------------|------------------------|-------------------------|-----------------------|---------------|-------------|
| BREAK | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| STOP | EDIT 1 DEF FN | CAPS L 2 @ FN | TRUE V. 3 # LINE | INV.V. 4 \$ OPEN | ← 5 % CLOSE | → 6 & MOVE | ↑ 7 · ERASE | → 8 (POINT | GRAPH 9) CAT | DELETE 0 FORMAT | - = | : DELETE |
| EDIT | SIN Q ASN | COS W DRAW ACS | TN E ATN | INT R VERIFY | RND T RUN MERGE | STR\$ Y RETURN [| CHR\$ AND U | CODE OR IF | PEEK AT INPUT | TAB " (| P POKE (C) | DELETE |
| CAPS LOCK | READ A STOP A NEW | STOP S A NEW | RESTORE NOT SAVE | DATA D F | SGW TO FOR | ABS GOTO > | SQR H GOSUB CIRCLE | VAL J LOAD VAL\$ | LEN K LIST SCREEN | USR = | " | ENTER |
| CAPS SHIFT | LN Z COPY BEEP | EXP : X CLEAR INK | LPRINT ? C CONT PAPER | LLIST V CLS FLASH | BIN B BORDER BRIGHT | INKEY\$ N NEXT OVER | PI M PAUSE INVERS | ? | . | CAPS SHIFT | | |
| SYMBOL SHIFT | | EXT.MODE | SPACE | | | | EXT.MODE | | SYMBOL SHIFT | | ← | → |