

# Enterprise 64/128

The Enterprise is a Zilog Z80 based home computer announced in 1983, but due to a price of \$1495 was not commercially available until 1985. It was most successful in the UK and Hungary, with its innovative use of custom ASICs for graphics and sound which took workload away from the main CPU.



## Quick reference

- **Emulator:** [CLK](#), [RetroArch](#) or [MAME](#)
- **Core:** [libretro: ep128emu-core](#), [libretro: mame](#)
- **Folder:** /userdata/roms/enterprise
- **Accepted ROM formats:** .bas, .com, .img, .dsk, .tap, .dtf, .trn, .128, .cas, .cdt, .tZX, .zip

## BIOS

### CLK

MD5 checksum	Share file path	Description
e972fe42b398c9ff1d93ff014786aec6	bios/Enterprise/basic21.bin	Required for CLK
f36f24cbb87745fbd2714e4df881db09	bios/Enterprise/exos21.bin	Required for CLK

### RetroArch (ep128emu-core)

The ep128emu-core provides built-in ROM images. No external BIOS files are required, although it can use custom ROM versions if placed in /userdata/bios/ep128emu/roms/.

MD5 checksum	Share file path	Description
f36f24cbb87745fbd2714e4df881db09	bios/ep128emu/roms/exos21.rom	Expandible OS 2.1
e972fe42b398c9ff1d93ff014786aec6	bios/ep128emu/roms/basic21.rom	BASIC Interpreter v2.1
ddff70c014d1958dc75378b6c9aab6f8	bios/ep128emu/roms/exdos13.rom	Disk Controller v1.3
a68ebcbc73a4d2178d755b7755bf18fe	bios/ep128emu/roms/epfileio.rom	Direct File I/O

Optional:

MD5 checksum	Share file path	Description
5ad3baaad3b5156d6b60b34229a676fb	bios/ep128emu/roms/exos20.rom	Enterprise 64 OS 2.0
8e18edce4a7acb2c33cc0ab18f988482	bios/ep128emu/roms/basic20.rom	Enterprise 64 BASIC v2.0

MD5 checksum	Share file path	Description
55af78f877a21ca45eb2df68a74fcc60	bios/ep128emu/roms/exos24uk.rom	Expandible OS 2.4
22167938f142c222f40992839aa21a06	bios/ep128emu/roms/hun.rom	Hungarian language extension
6af0402906944fd134004b85097c8524	bios/ep128emu/roms/brd.rom	German language extension
12cfc9c7e48c8a16c2e09edbd926d467	bios/ep128emu/roms/epd19hft.rom	EP-DOS Hungarian
228540b6be83ae2acd7569c8ff0f91d0	bios/ep128emu/roms/zt19uk.rom	ZozoTools extension
653daaf7b9b29c2c4e577f489580f247	bios/ep128emu/roms/zt19hfnt.rom	ZozoTools Hungarian

## MAME

MAME requires the following BIOS files placed in /userdata/bios/:

File	Description
ep64.zip	Enterprise 64 BIOS
ep128.zip	Enterprise 128 BIOS
ep64_exdos.zip	Enterprise 64 with EXDOS floppy controller

## ROMs

Place your Enterprise ROMs in /userdata/roms/enterprise.



CLK only supports .bas, .com and .zip files. Disk and tape formats (.img, .dsk, .tap, .dtf, .trn, .128, .cas, .cdt, .tzx) require the ep128emu-core or MAME emulators.

## Emulators

### CLK


CLK aka [Clock Signal](#) is a multi-system emulator that is focused on low-latency emulation. It emulates Enterprise and a bunch of other old computers. CLK uses RGB video output for Enterprise.

### RetroArch

[RetroArch](#) (formerly SSNES), is a ubiquitous frontend that can run multiple “cores”, which are

essentially the emulators themselves. The most common cores use the [libretro](#) API, so that's why cores run in RetroArch in Batocera are referred to as "libretro: (core name)". RetroArch aims to unify the feature set of all libretro cores and offer a universal, familiar interface independent of platform.

### RetroArch configuration

RetroArch offers a **Quick Menu** accessed by pressing [HOTKEY] +  which can be used to alter various things like [RetroArch and core options](#), and [controller mapping](#). Most RetroArch related settings can be altered from Batocera's EmulationStation.

Standardized features available to all cores of this emulator: `enterprise.videomode`, `enterprise.ratio`, `enterprise.smooth`, `enterprise.shaders`, `enterprise.pixel_perfect`, `enterprise.decoration`, `enterprise.game_translation`

ES setting name batocera.conf key	Description ⇒ ES option key value
<b>Settings that apply to all cores of this emulator</b>	
<b>GRAPHICS BACKEND</b> <code>enterprise.gfxbackend</code>	Choose your graphics rendering ⇒ OpenGL <code>opengl</code> , Vulkan <code>vulkan</code> .
<b>AUDIO LATENCY</b> <code>enterprise.audio_latency</code>	Audio latency in milliseconds, turn it up if you hear crackles ⇒ 256 256, 192 192, 128 128, 64 64, 32 32, 16 16, 8 8.

### libretro: ep128emu-core

[ep128emu-core](#) is a highly accurate Enterprise 64/128 emulator ported to libretro. It also supports [Videoton TVC](#) emulation.

### libretro: ep128emu-core configuration

ES setting name batocera.conf key	Description ⇒ ES option key value
<b>Settings specific to the ep128emu-core</b>	
<b>MAIN THREAD WAIT</b> <code>enterprise.ep128emu_wait</code>	Main thread wait time in milliseconds ⇒ 0 0 (default) through higher values.
<b>HIGH SOUND QUALITY</b> <code>enterprise.ep128emu_sdhq</code>	Enable high quality sound rendering ⇒ On 1 (default), Off 0.
<b>ACCELERATED SW FRAMEBUFFER</b> <code>enterprise.ep128emu_swfb</code>	Use accelerated software framebuffer ⇒ Off 0 (default), On 1.
<b>ENABLE RESOLUTION CHANGES</b> <code>enterprise.ep128emu_useh</code>	Allow dynamic resolution changes (requires restart) ⇒ On 1 (default), Off 0.

<b>ES setting name batocera.conf key</b>	<b>Description ⇒ ES option key value</b>
<b>BORDER LINES</b> enterprise.ep128emu_brds	Number of border lines to keep when zooming in ⇒ 0 0 (default) through higher values.
<b>SYSTEM ROM VERSION</b> enterprise.ep128emu_romv	Choose system ROM version (Enterprise only) ⇒ Original Original (default).
<b>ZOOM BUTTON</b> enterprise.ep128emu_zoom	Assign zoom function to a button ⇒ R3 R3 (default).
<b>INFO BUTTON</b> enterprise.ep128emu_info	Assign info overlay to a button ⇒ L3 L3 (default).
<b>AUTOFIRE BUTTON</b> enterprise.ep128emu_afbt	Select which button gets autofire ⇒ None None (default).
<b>AUTOFIRE REPEAT DELAY</b> enterprise.ep128emu_afsp	Set autofire repeat delay ⇒ 1 1 (default) through higher values.

### libretro: MAME

[MAME](#) can emulate the Enterprise 128 using the ep128 driver with the EXDOS floppy disk expansion (-exp exdos) enabled automatically. This allows loading disk images (.img, .dsk) directly.

### MAME (standalone)

The standalone [MAME](#) emulator provides the same ep128 driver with EXDOS support as the libretro core, but as a separate application.

## Controls

Most Enterprise games are played with the keyboard, or need a keyboard to start a game. There is a minimal [pad2key](#) configuration provided that emulates the internal joystick of the Enterprise, but if you use only a joystick, you will most probably have to remap the keyboard to play your game.

## Troubleshooting

### Further troubleshooting

For further troubleshooting, refer to the [generic support pages](#).

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