

# PC Engine/TurboGrafx-16

The PC Engine is a fourth-generation console developed by NEC. It was released in Japan on October 1987.

The console was redesigned for its North American release, and is known as the TurboGrafx-16 (the 16 representing how it uses 16-bit components (despite the fact that it only has an 8-bit CPU)) there.

Its later European/UK release in 1989 would use the original Japanese design and name. Unfortunately, due to its later release in the region it would end up competing against the other fourth-generation consoles despite its third-generation hardware. The [PC Engine SuperGrafx](#) would be released shortly after to address this.

The PC Engine/TurboGrafx-16 would later get a CD-ROM attachment. For emulation of those games, use the [system specific to PC Engine CD](#).

This system scrapes metadata for the "pcengine" group and loads the pcengine set from the currently selected theme, if available.



## Quick reference

- **Emulator:** [RetroArch](#)
- **Cores available:** [libretro: pce](#), [libretro: pce\\_fast](#)
- **Folder:** /userdata/roms/pcengine
- **Accepted ROM formats:** .pce, .bin, .zip, .7z

## BIOS

This BIOS file is required.

| MD5 checksum                     | Share file path   | Description                |
|----------------------------------|-------------------|----------------------------|
| 38179df8f4ac870017db21ebcbf53114 | bios/syscard3.pce | Super CD-ROM2 System V3.xx |

These BIOS files can also work, however they are known to have compatibility issues with certain games:

| MD5 checksum | Share file path   | Description          |
|--------------|-------------------|----------------------|
|              | bios/syscard2.pce | CD-ROM System V2.xx  |
|              | bios/syscard1.pce | CD-ROM System V1.xx  |
|              | bios/gexpress.pce | Game Express CD Card |

# ROMs

Place your PC Engine ROMs in /userdata/roms/pcengine.


For PC Engine CD-ROMs, instead place them in /userdata/roms/pcenginecd.

# Emulators

## 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 libretro cores: pcengine.videomode, pcengine.ratio, pcengine.smooth, pcengine.shaders, pcengine.pixel\_perfect, pcengine.decoration, pcengine.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 API</b> pcengine.gfxbackend                  | Choose which graphics API library to use. Vulkan is better, when supported.<br>⇒ OpenGL opengl, Vulkan vulkan. |
| <b>AUDIO LATENCY</b> pcengine.audio_latency              | In milliseconds. Can reduce crackling/cutting out.<br>⇒ 256 256, 192 192, 128 128, 64 64, 32 32, 16 16, 8 8.   |
| <b>THREADED VIDEO</b> pcengine.video_threaded            | Improves performance at the cost of latency and more video stuttering.<br>⇒ On true, Off false.                |

### libretro: pce

#### libretro: pce configuration

| ES setting name batocera.conf_key                            | Description ⇒ ES option key_value |
|--|-----------------------------------|
| <b>Settings that apply to all systems this core supports</b> |                                   |

| ES setting name batocera.conf_key                           | Description ⇒ ES option key_value  |
|---|--|
| <b>REDUCE SPRITE FLICKERING</b><br>global.pce_nospritelimit | Enhancement. Remove the sixteen sprites per line limit.<br>⇒ Off disabled, On enabled. |
| <b>CONTROLLER 1 TYPE</b> global.controller1_pce             | ⇒ PCE Joypad 1, PCE Mouse 2.   |

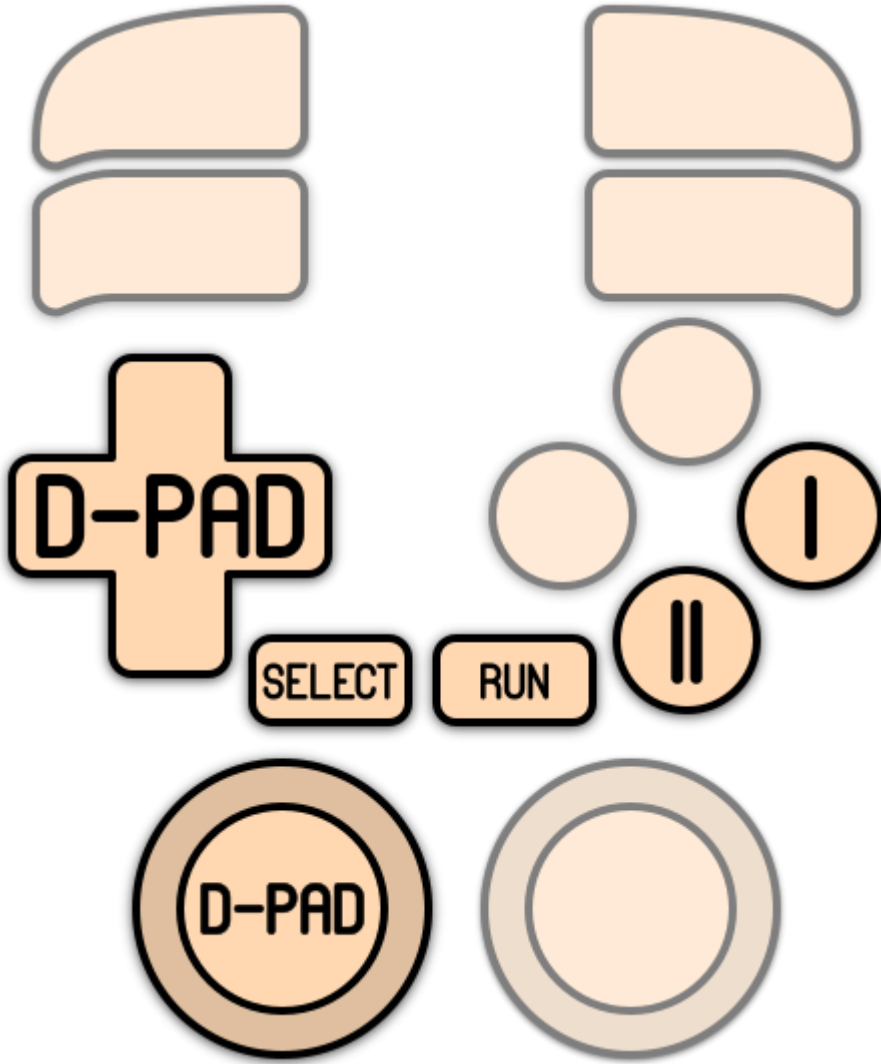
libretro: pce\_fast

libretro: pce\_fast configuration

| ES setting name batocera.conf_key                            | Description ⇒ ES option key_value  |
|--|--|
| <b>Settings that apply to all systems this core supports</b> |  |
| <b>REDUCE SPRITE FLICKERING</b><br>global.pce_nospritelimit  | Enhancement. Remove the sixteen sprites per line limit.<br>⇒ Off disabled, On enabled. |
| <b>CONTROLLER 1 TYPE</b> global.controller1_pce              | ⇒ PCE Joypad 1, PCE Mouse 2.   |

## Controls

Here are the default PC Engine's controls shown on a [Batocera Retropad](#):



## Troubleshooting

### Further troubleshooting

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

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