

# Installing new Cores



## Overview

The Vampire boards can be **updated** to use the latest Core improvements, such as:

- Bug fixes
- New features
- Speed improvements
- Compatibility improvements

The Vampire Core contains the following modules:

- [APOLLO Core](#)
  - M680x0-compatible and enhanced CPU
  - M68040-compatible and enhanced FPU
- [SAGA Core](#)
  - [SAGA Video Core](#)
  - [SAGA Audio Core](#)
  - [SAGA SDCard Core](#)
  - [SAGA SPI Flash Core](#)

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## Two different methods



### Method #1: Using .JIC binaries with Quartus II Programmer

This is the preferred method, because it is the only solution in case of a broken system (“brick”).

It requires:

- A USB-Blaster and cables.
- A Windows or Linux computer.
- Altera Quartus II Programmer installed.
- .JIC binary file dedicated to the target Vampire.

### WARNING

Quartus II Programmer does **NOT** protect the Vampire against unsuitable .JIC binaries.

→ [Installing new Cores using Quartus II Programmer](#)

## Method #2: Using FlashROM executables

This the secondary method because of the following risk:

### WARNING

FlashROM can brick a weak card! Prefer Method #1 if possible.

- Runs directly from AmigaOS 3.x.
- Easy to use, totally configuration-free.
- Protects against incorrect hardware target.
  - Reads the current revision and forbids flashing if wrong hardware.

→ [Installing new Cores using FlashROM executables](#)

## Warnings



- **NEVER** switch off the computer during a flash operation.
- **NEVER** flash unsuitable Cores on a Vampire board.
  - Do **NOT** flash, for example, a Core dedicated to Vampire 600 V2 on a Vampire 600 V1 or a Vampire 500 V2+.
- DO **NOT** use your operating system during a flash operation.
- ALWAYS have a copy of the previous working Core.
  - Having a copy will be useful in case of severe bugs in new release.
- BETTER to have a ready-to-use USB-Blaster in case of serious issue.

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