

# Vampire 500 V2+



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Accelerator board with record-breaking speed and unrivalled features.

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## Signature

- **Target:** Amiga 500 rev3, 5, 6a, 8 and Amiga 2000 (connects to the CPU socket)
  - Connecting to a **CPU slot** adapter on the Amiga 2000 is not officially supported. [more info...](#)
- **Designer:** [Majsta](#)
- **Manufacturer:** [Majsta](#) and Kipper2K
- **Release Date:** 2016

## Specifications

- **FPGA:** Altera Cyclone III
- **CPU:** [Apollo 68080 Core](#) <sup>1)</sup>
  - Equivalent to 800MHz 68030 / 400MHz 68040 / 200MHz 68060 <sup>2)</sup>
- **Memory:** 128 MB FastRAM
- **Chipset:** [SAGA-Core](#)
  - 4 MB of fast ChipRAM <sup>3)</sup>
- **Video:** 1280×720@60Hz, 1920×1080@28Hz, True color (32-bit)
  - [SAGA Graphics](#) (AGA with enhanced features and performance) <sup>4)</sup>
- **Audio:** 16-bit 56 kHz sampling rate, 24-bit mixing, 8 channels <sup>5)</sup>
- **Internal Ports:**
  - 44-pin Fast IDE Interface
    - Up to 13 MB/s data transfer speed <sup>6)</sup>
  - JTAG Socket
  - Ethernet Module Connector
    - On Revisions before 2.2, a different I/O Expansion Socket was included instead of this connector.
- **External Ports:**
  - Digital Video Out
    - Digital Audio signal <sup>7)</sup>
  - MicroSD Card

## Board Revisions

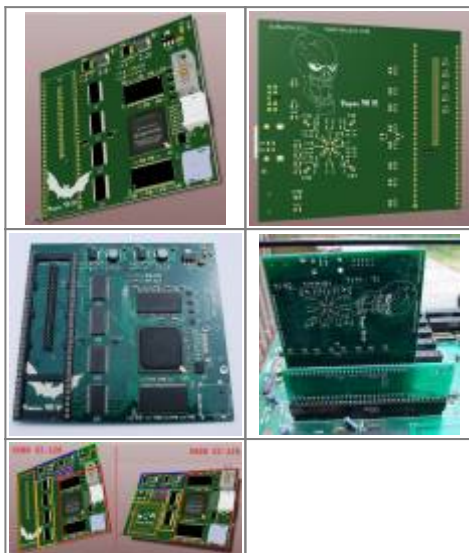
Rev: 2.2	I/O expansion header replaced with Ethernet module connector. Added bottom GND layer, introduced via stitching and teardrops, added fiducials and PCB panelization. Added top GND layer. Implemented Power fix. Implemented Digital Video Out fix.
Rev: 2.1	Added strip bars on 2 sides with fiducials for professional PCBA. Implemented Power quick-fix. Implemented Digital Video Out quick-fix.
Rev: 2	Added I/O expansion header, new logo.

## More Details

- [Peripherals](#)
- [Classic Amiga add-ons that are compatible](#)
- [Troubleshooting](#)
- [Updates](#)

## Gallery

### Prototype #1



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<sup>1)</sup> See “FPU Precision” under [68080 FPU Core](#) for some caveats.

<sup>2)</sup> Exact performance is application-dependent.

<sup>3), 4), 5), 7)</sup> Available with the free upgrade to Core version GOLD3.

<sup>6)</sup> Speed boost is only possible on “Fast IDE”-compatible storage devices, like CompactFlash cards.

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