LAMPIZATOR

The SuperKomputer

The SuperKomputer is the realization of a dream: to have, besides the DAC, the full control over the sound quality of the digital source. We built the SuperKomputer because no other source was worthy of our Golden Gate DAC. With tasks as demanding as playback of quad-DSD (256x) or conversion of PCM files to DSD on the fly – the only solution is very powerful and specialized computer. On PCM of course it is equally great.

We created our own Big chassis modified for this product, added our own custom built Lampizator linear PSU with custom built 300VA transformer and we overspecified the power section by a factor of 6.

The modherboard was selected after testing all motherboards on the market and mated it with the most powerful processor, not to mention modified BIOS. All aspects of the computer were selected and configured following careful listening tests on our Golden Gate DAC in our reference listening room.

What seems to be „just a computer" is in fact a very powerful and extremely specialized machine that outperforms the most famous streamers on the market. With the use of specialized embeded Linux OS we were able to avoid lots of problems associated with typical operating systems used today.

The SperKomputer is user friendly. The boot is lightning fast, no possibility of Windows misbehaviour, and the user sees only his music program as user interface.

TECHNICAL HIGHLIGHTS

- ROON with HQPlayer preinstalled but licence is the user responsibility
- Plug and play, Headless operation
- USB and SPDIF outputs
- DSD conversion on the fly
- No network required
- Can rip and burn CD's
- Streams Tidal and Spotify seamlessly with the HDD collection – up to 8TB of internal storage and SSD-SLOT access from the side panel
- Special tube S/PDIF output optional, car battery operation optional

Our lifetime of work
your lifetime of play...

What sets our SuperKomputer apart from other computers is fanless CPU, fanless operation of fully linear PSU by Lampizator. Separate power supply line for every consumer internally. Good sound can only be achieved by almost irrational overspecifying the machine, and by Linux OS running on SSD drive and a massive RAM bank. We use specialized Audiophile Grade USB 3.0 cards for audio output of highest quality. Car battery PSU support can be built in for the most critical listening sessions. Installed Linux is heavily modified for the music purpose and even the most radical playback from RAM is supported. During the operation, the system resources are used less than single % of the peak capability. User interface can run on the local monitor, as well as on any remote control like smartphone, tablet or laptop / desktop computer (any). User can run remote desktop as well as the music App. The S-Komputer can be shared by multiple users and simultaneously play from several outputs. It can read external NAS data files as well as local USB drives or Tidal streaming. We can convert Tidal stream (even MQA) to DSD 256 on the fly.

Output Type	High-end USB card, normal motherboard USB3, normal motherboard USB2, S/PDIF (optionally Lampizator TUBE S/PDIF in addition to standard S/PDIF)
Microprocessor	4 core, 8 threads, 8GB cache Skylake i7 with passive cooling
DSD Supported	64x, 128x, 256x (on our Linux) and 512 on Windows (not supplied)
PCM via USB	384 kHz / 32 BIT, all known file types
PCM via S/PDIF	192 kHz / 24 BIT
RAM	16 GB, (max 32GB) DDR4
Drive	Embeded memory for LINUX system and ROON: M.2 Samsung 128 GB Pro Series (7x faster than SSD)
Storage	1 TB SSD (4 empty slots for up to max 8TB SSD or 8TB HDD). Only 2,5 inch is supported, not 3,5 inch drive size)
OS	LINUX modified by Lampizator for audio (embeded in M.2)
GUI	Pre installed ROON (user can change to anything like JRiver, Foobar, Daphile)
Motherboard	High performance Skylake board, BIOS modified for audio by Lampizator
PSU	8 parallel feeds of linear type, plus ATX linear fanless PSU, custom Lampizator transformer 300 W
AC Power Consumption	65 W
Dimensions (Shelf Footprint)	43 cm [W] x 50 [D] x 18 [H] (Lampizator BIG) plus cable space at the back
Net weight in kg (lb)/ Shipping Weight	15 kg (35 lb) / 25 kg (60 lb in custom Lampizator flight case)
User interface	Use any tablet, smartphone or laptop. Apple Pro 12" recommended
Video	HDMI output for local monitor VIDEO playback with optional second SSD with secont OS optimized for Video (BLUE-RAY). 4K supported
Car Battery Power	12V terminals as paid option to be used with any car battery
Optical Drive	External type USB, BLUE-RAY R/W as an option for ripping/burning CD

Specifications subject to change without notice