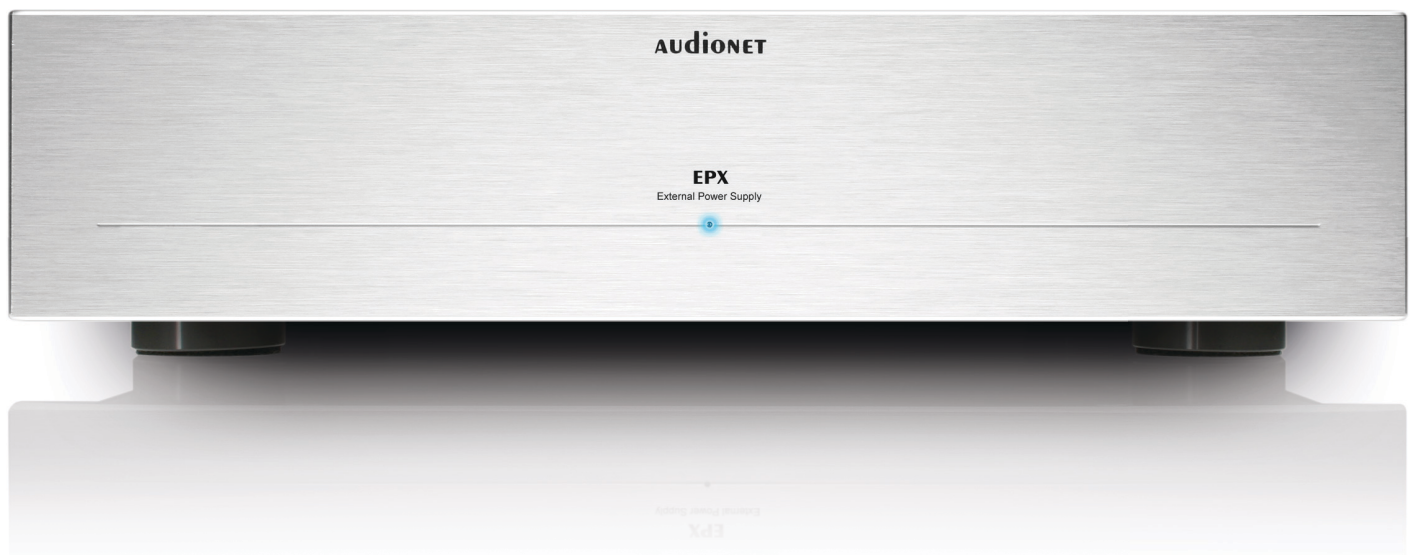


AUDIONET

Scientific magic.

EPX

Energize Your Gear



This is a scientific paper.
For holographic images and optimal resolution please do visit your audionet expert dealer.
Thanks very much. We're glad you are with us.

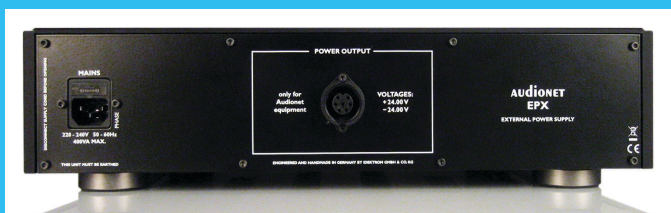
Scientific magic.

Energize Your Gear

The EPX is Audionet's scientifically proven answer to very serious music lovers desperately wanting to enhance the performance of their already existing devices with a High Performance upgrade.

The EPX produces clearly audible improvement in terms of stability, calmness, spatiality and tonal pureness. Music is reproduced with greater naturalness, clearer expression and in a brighter quality. Its straight design fits in every configuration.

Why does an external power supply represent such an improvement? The properties of active circuits are highly dependent on their supply voltages. Devices designed for the reproduction of music are very sensitive to any kind of external supply variations. As a voltage source, the EPX offers extremely precise and load-independent supply voltages. With these properties, EPX comes close to an ideal voltage source without accepting the disadvantages of accumulators.



The EPX achieves effective decoupling of all harmful influences from the public power supply system. The EPX is fed by a constant, low-noise source usually only used in laboratory environments. This precise constant voltage supply will really make the decisive difference to the performance of your devices.

Absolute Control

The EPX is built up as a high-precision constant voltage source. The chassis and circuit design are magnetically and capacitatively optimized. The symmetrical circuit board layout minimizes loss from oversized current paths and earths the current flow.

The arrangement of the toroid core transformers minimizes the influence of magnetic disturbances. The voltage supply is managed by two 200 VA ring toroid transformers that are each responsible for one half-wave. The capacity of the fast and impulse-stable high current capacitors is 576,000 μF . Only Schottky-diodes with extremely fast switching times are used. A highly constant and low-noise laboratory source serves as voltage reference.

“... an audiophile Bi-Turbo, which seems to be without any alternative for me ...”

(HiFi & Records)

Function

External precision power supply and conditioner.

Special Features

- Discrete circuit layout for positive and negative voltages
- 2 * 200 VA toroid core transformers
- 576.000 μF filter capacity
- Separate 10 VA transformer for digital voltages
- High precision discrete voltage regulator with MOSFET power transistors
- Protected against shortcut and overtemperature
- Rhodium-plated fuse

In- and Outputs

Output: 7-pole socket for Audionet gear
Mains: IEC male power insert connector

Technical Data

Output Voltage: $\pm 24\text{V}$
Precision: 0,1%
Servo Accuracy: 0,01%, temperature compensated
Output Current: $\pm 3\text{A}$ max
Power Consumption: < 1 W stand-by, max. 400 W
Mains: 220...240 volts / 50...60 Hz or 100...120 volts / 50...60 Hz
Dimensions: width 430 mm
height 110 mm
depth 360 mm
Weight: 18 kg

Compatibility

The EPX is compatible with the following Audionet products:

Sources: ART G3, ART G2, VIP G3, VIP G2, CAT
Preamplifiers: PRE I G3, PRE I G2, MAP I, MAP, MAP V2, PAM G2, PAM V2, PAM
Network Components: DNP, DNA, DNC

Scientific Breakthroughs: Audionet Key Technologies

Audionet-Ultra-Linear-Amplifier ULA

Audionet's worldwide respected and award-winning ULA (Ultra Linear Amplifier) technology is of fundamental importance for our outstanding technology. This highly complex circuit topology, initially conceived with medical engineering in mind, delivers metrological results which mark a limit of feasibility. Even under the most severe strain or in other stress situations signal impurities are barely traceable, and the high return loss guarantees that even the most demanding loudspeakers will perform faultlessly up to their utmost limits.

Audionet Operational Amplifier

Audionet operational amplifiers (OP) are used in our devices at most sound-critical parts of the circuit design to deliver the very best tonal results. Usual operational amplifiers, available in different quality and price ranges on the global market, can't satisfy our core demands for perfect sound quality. Even the most expensive ones with the best results on paper aren't perfect. That's why we have designed our own operational amplifier technology. Any single Audionet OP contains at least 86 parts and components, and our topology ensures an impressive gain-bandwidth-product of 1 GHz.

Asynchronous Upsampling

With the D/A conversion we've focused our highest attention on eliminating jitter, the wobbling of digital signal slopes. Jitter faults curtail the sound reproduction in every respect: imaging, stage and depth rendition will be impaired. The conversion is done using Audionet's Intelligent Sampling Technology which guarantees an absolutely

flawless recovery of the analogue signal from the digital bit stream. For this purpose the data are sent through a sophisticated, two-stage filtering and decoupling procedure. First the input data are filtered with Audionet's proprietary software using a powerful signal processor and upsampled synchronously. The filters have been designed under audiophile aspects with regard to an optimised transient and frequency response. The thus optimised data are then resolved through an asynchronous upsampling procedure at 192kHz/24bit. Hereby the bit stream is completely isolated from its input clock and its associated jitter. The data are then fed to high-performance converters, which are clocked by special ultra-precision quartz crystals, and individually processed per channel into analogue signals. This method ensures that jitter faults are almost entirely eliminated in the analogue signal. No information gets lost and every bit of information will be processed at the right time, bringing forth an unmatched clarity, room depth and stage imaging.

Audionet Listening Room

Listen and be enlightened!

In Audionet's quite incomparable listening room.



Finish

Front panel:

Brushed aluminium, 10mm, black anodized, light grey printing

Brushed aluminium, 10mm, silver anodized, black printing

LED:

Red or blue

Cover:

Aluminium, 4 mm, black anodised

Sides:

Aluminium, 8 mm, black anodised

Chassis:

Sheet steel, 2mm, black varnished



Reference

Positive Feedback:

“The EPX does the job of taking the PAM G2 to another level of purity and performance. The task of retrieving the very low signals from MCs is a delicate one; poor handling of the power supply in a phono amp will lead to degradation of the handling of the input signal. The EPX is Audionet’s effort to minimize such signal corruption in their attached devices.”

HiFi & Records:

„ ... The combination with the high precision external power supply EPX results in an audiophile Bi-Turbo, which seems to be without any alternative for me ... The signal-to-noise-ratio is so low, that it is nearly not detectably. State of the Art – as good as it gets.“

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Errors and omissions excepted. Specifications and design are subject to changes without prior notice.

Sources
PLANCK
VIP G3
ART G3



Integrated Amplifiers
WATT
SAM G2



Preamplifiers
STERN
PRE G2
PRE I G3
PAM G2



Power Amplifiers
HEISENBERG
MAX
AMP
AMP IV2



Network Components
DNP
DNA 2.0
DNA I
DNC



Power Supplies
AMPERE
EPX
EPS G2

