

AUDIONET

Scientific magic.

DNA I

Merging of the Digital and Analogue World



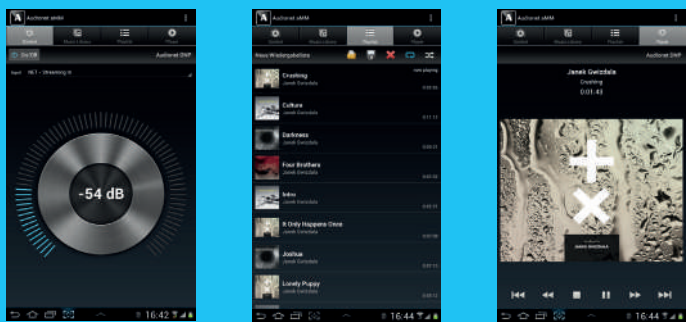
This is a scientific paper.
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Thanks very much. We're glad you are with us.

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Merging of the Digital and Analogue World

The Audionet DNA I combines extraordinary performance and peerless sound quality with compact dimensions. With its universal interface to access your digitally stored music, it's an audiophile powerhouse for bits and bytes. The Audionet DNA I changes all kinds of binary music data into an exhilarating and intoxicating listening event. The sound is rock-solid and powerful, comprehensive and rich in contour, natural and finessed. It turns bits and bytes to a tremendous and vigorous experience for the senses.

Audionet's DNA I allows an ease of use that is uncommon in the high-end audio world. With intuitive and powerful apps, it interfaces with all tablet PCs and smart phones, including all members of the Android and iOS operating systems (Audionet aMM – Audionet Music Manager for Android, Audionet iMM – Audionet Music Manager for iOS).



The Audionet DNA is able to be fully integrated into a network and operated entirely by a PC or Mac. Our in-house developed software RCP (Audionet Remote Control Point) allows the user to organize complex functions and settings effortlessly through a GUI (graphic user interface). The RS-232 interface allows in addition for professional integration into home automation systems. At long last it can also be controlled in the classic way with the Audionet System Remote Control.

The DNA I is capable of receiving its data from the Internet radio and podcasts, streams music from TIDAL, Qobuz and Deezer, USB Audio interfaces, HDD, USB-sticks/drives, analogue sources and can be fitted with a first-class phono preamp. The DNA's optical link output allows for remote switching of other Audionet components, and it offers a network phase detector.

The Audionet DNA I offers universal connectivity. For digital signals we have provided 5 digital inputs altogether, from WLAN, LAN to USB and USB Audio to electrical and optical S/PDIF. For the analogue signals it offers 3 pairs of gold-plated RCA inputs.

Construction

The circuit design is elaborate, technically unique and rigorously implemented. The power supply is strong and fast: a 700 VA toroid transformer, dedicated capacitors with a large total smoothing capacity of 96,000 μF ; incorporating low ESR, a special highly effective power input filter, and – last but not least – an optimized circuit design with short paths and low intrinsic capacitance ensuring the powerful and fast-acting characteristics needed for pure, clean power – and sound – delivery.

Signal Processing

The digital section of DNA I is separated from the analogue base board to reduce effectively disturbances caused by the digital high frequency signals. The digital to analogue converter supports digital signals up to 192 kHz / 24 bit.

The ultra-linear circuitry is designed for exemplary distortion-free, high-speed and stable sound. Sound-damaging influences have been almost entirely eliminated, exemplary reproduction stability is guaranteed. We use only the best materials; carefully selected high-grade components such as audio-grade capacitors with a silk / hemp dielectric; high quality, close-tolerance film impulse capacitors and highest-quality rhodium speaker terminals.



Function

Network-compatible stereo integrated amplifier.

Special Features

- Streaming client for internet radio and podcast playback (airable.Radio & airable.on-demand and vTuner Internet Radio Service), network devices (UPnP mediaserver) and music data from USB memory sticks
- Offers access to music online services TIDAL, Qobuz and Deezer in Hifi/HighRes quality: FLAC 44.1kHz/16bit up to 192kHz/24bit (depending on availability and account type of respective online service)
- Supported streaming client formats: WAV (up to 192 kHz / 24 bit), FLAC (up to 192 kHz / 24 bit), ALAC (up to 96 kHz / 24 bit), AIFF (uncompressed, up to 192 kHz / 24 bit), AAC, WMA, OGG-Vorbis, USB 2.0 (USB-A) for external media control and USB Audio 2.0 (up to 192 kHz / 24 bit);
- Supports Gapless-Playback by Audionet Apps
- Audionet Intelligent Sampling Technology with asynchronous upsampling up to 192 kHz / 24bit
- Precise clockgenerator for the elimination of clock flank deviations (jitter)
- Sampling frequencies and resolution of the digital inputs: 32 kHz to 192 kHz / 24 bit
- Audionet ULA-technology (Ultra Linear Amplifier)
- Fully DC-coupled, no capacitors in the signal path
- One toroid transformer with 700 VA
- Filtering capacity in total of 96,000µF
- Separate power supplies for digital and analogue section
- Signal wiring by monolithic super-clean copper cable
- Bypassmode for home-cinema integration
- Microprocessor with dedicated powersupply controls and handles all functions

- Remote activation of other Audionet components via Audionet Link (optical fiber)
- Headphones output electronically switchable
- Automatic mains phase detection

Technical Data

Output Power:	2 x 110 Watt into 8 Ohm 2 x 220 Watt into 4 Ohm
Damping factor:	typ. > 1,000 at 100 Hz
Filtering capacitance:	> 96,000 µF
THD + N:	< -93 dB, for 20 Hz to 20 kHz

Analogue Inputs

Bandwidth:	1 – 500,000 Hz
SNR:	> 100 dB at 1kHz

Digital Inputs

Bandwidth:	1 – 96,000 Hz, depending on fs
Sample frequency fs:	32 up to 192 kHz

Mains:	220...240 volts / 50...60 Hz or 100...120 volts / 50...60 Hz
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Power consumption:	< 1 W stand by, 12 W quick start, max. 750 W
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Dimensions:	width 430 mm height 110 mm depth 360 mm
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Weight:	16 kg
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Finish

Front panel:

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

Brushed aluminium, 10mm, silver anodized, black printing

Display:

Red or blue

Cover:

Aluminium, 4 mm, black anodised

Sides:

Aluminium, 8 mm, black anodised

Chassis:

Sheet steel, 2mm, black varnished



In- and Outputs

- Analogue audio inputs: 3 pair RCA Line, gold plated, Teflon insulated
- Digital audio inputs: 1 RCA, 75 Ohm, gold plated, teflon insulated
1 optical (TosLink)
- Audio outputs: 1 pair RCA Pre-Out, gold plated, teflon insulated
6.3 mm socket (headphones), electronically switchable
- Loudspeaker outputs: 2 pair Furutech Rhodium pole terminals
- Additional connectors: 1 Ethernet (RJ 45)
1 USB Audio type B
1 USB 2.0 type A
RS232
Screw connector for turntable earth connection
- Remote activation: 1 Audionet Link OUT, optical (TosLink)
- Mains: EC male power insert connector

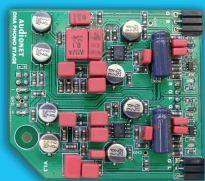
en.audionet.de



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Option: Phono Module

We do offer an ultra-compact phono module for our integrated network amplifier DNA I. This phono module is compatible with Moving Magnet (MM) and Moving Coil (MC) cartridge types, and it includes adjustable load. The configuration of the phono stage can easily be done by the amplifiers setup menu or by the control software RCP.



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

