

AUDIONET DNA: A NEW BREED OF INTEGRATED AMPLIFIER



The creation of the DNA (Digital Network Amplifier) began with a single aim: to build the best sounding and most versatile integrated amp possible, capable of interacting with all current music reproduction sources. R&D was allowed to operate with uncompromising rigor and dedication at all phases, leading to the DNA's astonishing powerful performance, innovative digital and analogue signal processing and circuit design. The Audionet DNA is therefore more than a stellar integrated amplifier – it is a universal interface for digital music, and an audiophile's power station. Reading from computers, servers, HDD, USB sticks/drives and streaming from the internet - via cable or wireless - the Audionet DNA will turn any digital music data into a captivating and emotionally fulfilling musical experience.

Audionet's DNA, considered a premium choice among elite integrated amplifiers, 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 the first network client, Digital to Analog converter and power amplifier 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.

Press commentary:

"The Audionet DNA is a phantastic integrated high-end amplifier: It sounds absolutely superb, both digital and analogue, the catalogue of its features is pure luxury, and owing to RCP it is still easy to operate, despite a high degree of complexity. No doubt, with this avantgarde amp Audionet delivers a technical masterpiece. The DNA is certainly the trendsetter for the next generation of integrated amps – not only for that i-fidelity.net is awarding a fat reference title!"

Olaf Sturm at online magazine - i-fidelity.net

Product Information



Features

streaming client for internet radio playback (vTuner Internet Radio Service), network devices (UPnP mediaserver) and music data from USB memory sticks
supported streaming client formats: WAV (up to 192kHz/24bit), FLAC (up to 192kHz/24bit), ALAC (up to 96kHz/24bit), AIFF (uncompressed, up to 192kHz/24bit), AAC, WMA, OGG-Vorbis
USB 2.0 (USB-A) for external media control and USB Audio 2.0 (up to 192kHz/24bit)
2.0 to 2.2 stereo operation mode (2 analogue subwoofer outputs or usable as multiroom outputs)
gapless playback
parametric equaliser and delay manager for all outputs
double-precision bass manager with 48bit resolution and freely adjustable crossover frequencies and filter properties
Audionet Intelligent Sampling Technology with asynchronous upsampling up to 192kHz/24bit
precise clock generator for the elimination of clock flank deviations (jitter)
Sampling frequencies and resolution of the digital inputs: 32 kHz to 192kHz/24bit
Audionet HighBit interface for all audio data including DVD-A and SACD
FM radio receiver with RDS function
Audionet ULA technology (Ultra Linear Amplifier)
fully DC-coupled, no capacitors in the signal path
power amplifier with two separate power supplies for driving stage and power stage
one toroid transformer with 50 VA for inputs and driving stage
two toroid transformer with 700 VA with filtering capacity in total of 144.000 µF
separate power supplies for digital and analogue section
gold-doped, pure silver, solid core signal cabling
microprocessor with dedicated power supply controls and handles all functions
Bypass mode for home cinema integration
remote activation of other Audionet component via Audionet Link (optical fiber)
headphones output electronically switchable
automatic mains phase detection

Bass manager

management of one (mixed-mono) or two subwoofer (mixed-mono or stereo)
data processing with 48bit resolution (double precision)
channels/channel-groups can selectively be driven with the full signal or across the digital frequency crossover with adjustable crossover frequencies and filter qualities.
X-Bass: Subwoofer can be configured as additional active bass
filter quality adjustable from 0,3 to 2,00 in 12 logarithmic steps
crossover frequencies adjustable from 20 Hz to 303 Hz in 51 logarithmic steps
Subwoofer phase switchable

Delay manager

Adjustment range: Distance Listening position <-> loudspeaker 0m to 7m
automatic calculation of the delays resulting from the distance settings
Subwoofer delay offset: Phase fine-tune for best impulse response (+/- 7m)

Equalizer

5 MPE (Minimum Phase Equalizer) for each main channel and Sub
Adjustment range for each MPE: Filter type Peak-Filter, High-Shelve, Low-Shelve, high-order filter, low-order filter
Frequency (f): 20 Hz to 20 kHz, 128 logarithmic steps
Gain: -12 dB to +6 dB, 0,5 dB-steps
Quality (Q): 0,3 bis 8,0, in 20 logarithmic steps
Import of CARMA equaliser settings

Connectors

WLAN 802.11b/g/n – WEP, WPA, WPA2
LAN/Ethernet (RJ 45)
USB 2.0 for external media control
RS232 (control input)

Inputs and Outputs

Audio inputs (analog)

3 pair RCA Line, gold plated, Teflon insulated
1 pair Neutrik XLR balanced, gold plated

Audio inputs (digital)

4 RCA, 75 Ohm, gold plated, Teflon insulated

1 Neutrik XLR AES/EBU, 110 ohms, gold-plated, teflon insulated
2 optical (TosLink) ; 1 USB Audio Type B

Audio outputs

1 pair RCA, gold-plated, teflon insulated
2 RCA sub out (multiroom), gold-plated, teflon insulated
2 pair WBT nextgen™ pole terminals
6.3 mm socket (headphones), electronically switchable

Additional connectors

1 USB 2.0 Typ A
WLAN antenna (SMA), 1 Ethernet 10/100 MBit (RJ 45)
FM antenna, 75 Ohm; RS232
Screw connector for turntable earth connection
Screw connector for additional earth connection, gold plated

Remote activation

2 Audionet Link OUT, optical (TosLink),
3,5mm-jack plug as trigger output with 12V-switching voltage

External power supply EPS G2 / EPX

5-pin-socket

Mains IEC male power insert connector

Specifications

Output Power	2 x 165 Watt into 8 Ohm 2 x 280 Watt into 4 Ohm 2 x 440 Watt into 2 Ohm
Damping factor	> 1000 at 100 Hz
Filtering capacitance	>144,000 µF

Distortions

Harmonic Distortions	k2 typ. -101 dB, k3 typ. -107 dB, @1 kHz, 25 W/4 Ω
THD+N	<- 90 dB

Analog Inputs

SNR	> 92 dB at 1kHz referred to V_{in}
Bandwidth	1 – 500.000 Hz

Digital Inputs

Sample frequency f_s	32 up to 192 kHz
Bandwidth	1 – 96.000 Hz, depends on f_s

Product Dimensions (W x H x D) 430 * 130 * 390 (mm)

Weight 25 kg

Mains 220...240 volts / 50...60 Hz
100...120 volts / 50...60 Hz

Power consumption < 1 W Stand-by, max. 1200 W

Finish

Front:
brushed aluminium, 10 mm, black anodized, light grey printing
brushed aluminium, 10 mm, silver anodized, black printing
Display red or blue
Cover aluminium, 6 mm, black anodized
Side plates aluminium, 8 mm, black anodized
Chassis: 2 mm sheet steel, black varnished

Options

» MC/MM- phono module with gain/impedance setup by menu
» external power supply EPS G2 / EPX



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