

White Paper DNC

Audionet DNC: The Network-Genius

Overview and technical data DNA

Function

- network - compatible streaming client and D/A-converter

Features

- streaming client for internet radio playback (vTuner Internet Radio Service), network devices (UPnP mediaserver), iPod (digital) und music data from USB memory sticks
- supported streaming client format: WAV (up to 192kHz/24Bit), FLAC (up to 192kHz/24Bit), AIFF (up to 192kHz/24bit), MP3, AAC, WMA, OGG-Vorbis
- USB Audio (up to 192kHz/24Bit),
- analog stereo outputs
- Parametric equalizer and Delaymanager for all outputs
- 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
- Radio receiver for UKW with RDS-funktion
- Audionet ULA-Technology (Ultra Linear Amplifier)
- completely DC-coupled, no capacitors in the signal path
- one toroid transformer with 50 VA for analog signal processing
- filtering capacity in total of 44.000 µF
- separate power supplies for digital and analog section
- gold-doped, pure silver ,solid core signal cabling
- microprocessor with its own power supply controls and handles all functions
- remote activation of other Audionet component via Audionet Link (input and output, optical fiber)
- automatic mains phase detection

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Options

- Audionet system remote control Harmony One
- Audionet EPS G2

Delay manager

- Adjustment range: Distance Listening position <-> loudspeaker 0m to 7m
- automatic calculation of the delays resulting from the distance settings

Equalizer

- 5 MPE (Minimum Phase Equalizer) for each main channel
- Adjustment range for each MPE:

Filter type	Peak-Filter, High-Shelve, Low-Shelve, high-pass filter, low-pass 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-Equalizer-Settings

Connectors

- WLAN 802.11b/g – WEP, WPA, WPA2
- LAN/Ethernet (RJ 45)
- USB 2.0 for external media or for iPod control
- USB Audio 2.0 (up to 192kHz/24bit)
- RS-232 (control input)

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In- and outputs

- Audio input (Digital)
 - 2 Cinch, 75 Ohm, gold plated, Teflon insulated
 - 2 optical (TosLink)
 - 1 Neutrik XLR AES/EBU, 110 Ohms, gold plated, Teflon insulated
 - 1 USB Audio Typ B
- Audio output
 - 1 pair Cinch Pre-Out, gold plated, Teflon insulated
 - 1 pair Neutrik XLR symmetric, gold plated
- Additional connectors
 - 1 USB 2.0 Typ A
 - 1 Ethernet 10/100 MBit (RJ 45)
 - FM-antenna, 75 Ohm
 - RS-232
 - Screw connectors for additional earth connection, gold plated
- remote activation
 - 1 Audionet Link OUT, optical (TosLink)
 - 1 Audionet Link IN, optical (TosLink)
 - 3,5mm-jack plug as trigger output with 12V-switching voltage (optional 5V)
- ext. power supply EPS G2: 5-pol-socket
- mains: IEC male power insert connector

Specifications

- frequency response 0 – 1.000.000 Hz (-3 dB), DC-coupled
- slew rate 10 V/ μ sec
- channel separation between channels: >100 dB at 20 kHz
- output voltage

Line	max. 3,2 Vrms
XLR	max. 6,4 Vrms
- output impedance

Line	24 Ohm real
XLR	48 Ohm real

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Digital input

- Sample frequency 32 to 192 kHz
- THD+N at 1kHz, -60 dBFS, Sample frequency 48 kHz: Front: 104 dB/107 dB(A)

Mains: 220..240 Volt / 50..60 Hz
power consumption: < 1 W stand-by, max. 85 W
dimensions: width 430 mm | height 70 mm | depth 310 mm
weight: 8 kg

Finish

front: brushed aluminium, black anodized, light grey printing
brushed aluminium, silver anodized, black printing
display: red or blue
cover: aluminium, black anodized
Chassis: sheet steel, black varnished

Errors and omissions excepted.

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Audionet ist ein Geschäftsbereich der
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