

PowerBox 6*pro*

by magicLX521.com



- All you need between CD-player and your speakers
- Preamp / ADC / DSP / 6 DACs / 6 Hypex **NCore** power amplifiers
- Tailored performance: 2x100W, 2x125W, 2x250W, all 2Ohms capable!
- Slim & light & quiet, fan-less design. **Massive 3mm full aluminum** case with stainless steel front plate: ca. 44 x 36 x 5,5 cm
- **Professional high current SpeakON** output:
Two SpeakONs replace 12 (!) “banana” plugs
- High End Hypex DSP with **carefully designed clock-, DAC- and analogue output stages.**
- Balanced signal from input to output, remote volume control.
- LXspeaker owners get preloaded filter sets (LXmini, LXmini+2, LXstudio). LX521.4 needs two of these PowerBoxes.
- IN: analog balanced XLR, digital RCA, optical, AES XLR & RJ45, **USB for individual filter, gain, delay and inv. programming!**
Free Hypex Filter Design software for any speaker project.
- Available (€2490) worldwide Nov. 2016 www.magicLX521.com

Plus S&H. EU residents add 19% VAT

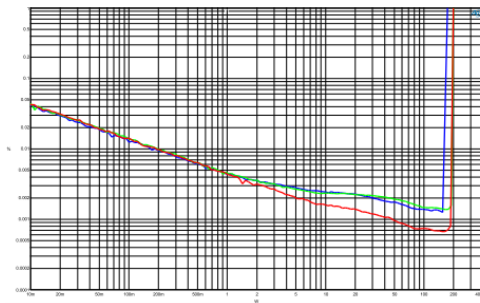
3.4 Ncore Amplifier Specifications

| Parameter | Conditions | Symbol | Min | Typ | Max | Unit | Note |
|-------------------------|---|------------------|-----|--------|------|------|------|
| Peak Output Power | 1KHz, THD=1%, All channels driven. Per channel. | $P_{R, 2\Omega}$ | - | - | 180 | W | |
| | | $P_{R, 4\Omega}$ | - | - | 250 | W | |
| | | $P_{R, 8\Omega}$ | - | - | 200 | W | |
| Continuous Output Power | Per channel, 25°C ambient temperature. | $P_{R, cont}$ | - | 50 | - | W | 1) |
| Distortion | <10Hz-20kHz AES17 $P_{out} < P_{R}/2$ | THD+N | - | 0.00 | 0.00 | % | 2) |
| | <10Hz-20kHz AES17 $P_{out} = 1W$ | | - | - | 0.00 | 15 | % |
| CMRR | | | - | 71 | - | dB | |
| Signal-to-Noise Ratio | <10Hz-20kHz AES17 | | - | 121 | - | dB | |
| Output Noise | Unwtd, <10Hz-20kHz AES17, 0Ω termination | U_N | - | - | 30μ | V | |
| Output Impedance | f<1kHz | Z_{OUT} | - | - | 1.5 | mΩ | |
| | f<20kHz | | - | - | 3.5 | mΩ | |
| Power Bandwidth | | PBW | | 20-35k | | Hz | |
| Frequency Response | +0/-3dB. All loads. | | 10 | - | 50k | Hz | |
| Voltage Gain | | A_V | 25 | 25.5 | 26 | dB | |
| Efficiency | Full power | η | - | 92 | - | % | |
| Idle Losses | Per channel | P_0 | - | 3.5 | - | W | |
| Current Limit per Ch | Hiccup after limiting 40ms | | - | 17.5 | - | A | |

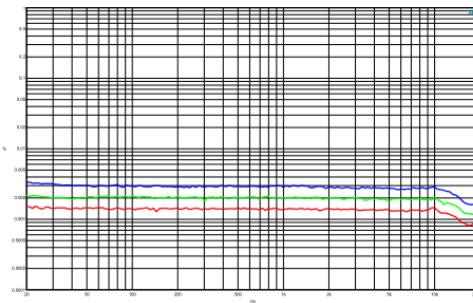
Note 1: Typically this is 1/5 of the peak output power. Apply sufficient cooling.

Note 2: An Audio Precision AES17 20 kHz is used during this measurement.

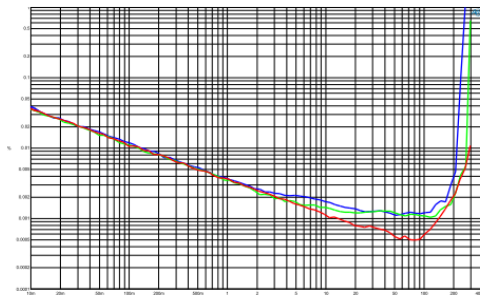
Typical Performance Graphs



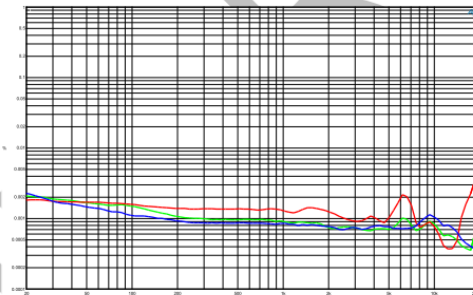
THD+N vs. power at 100Hz (blue), 1kHz (green) and 6kHz (red) (2Ω).



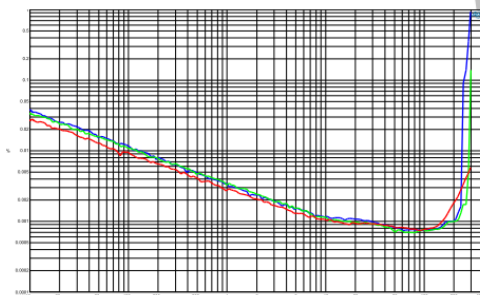
THD+N vs. Frequency at 1W in 2Ω (blue), 4Ω (green) and 8Ω (red).



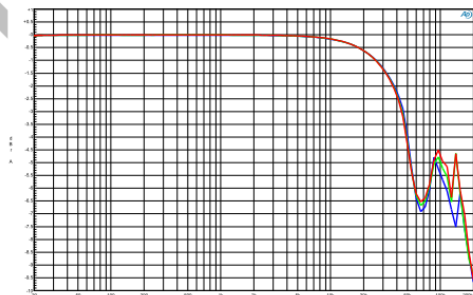
THD+N vs. power at 100Hz (blue), 1kHz (green) and 6kHz (red) (4Ω).



THD+N vs. Frequency at $P_{R}/2$ in 2Ω (blue), 4Ω (green) and 8Ω (red).



THD+N vs. power at 100Hz (blue), 1kHz (green) and 6kHz (red) (8Ω).



Frequency response in 2Ω (blue), 4Ω (green) and 8Ω (red).

EarFood GmbH PowerBox 6 pro **N CORE**
www.magtcLX521.com

! use !

control out in out

USB in out

DACP 2 1

! use !

loudspeaker

subwoofer

Nicht öffnen,
Lebensgefahr!
Do not open!
Danger!

50-60 Hz, 115/230 V~
1500 W max.

L analogue 2 R
L analogue 1 R
opt
aes
in out