Bass Extension - digitally powered

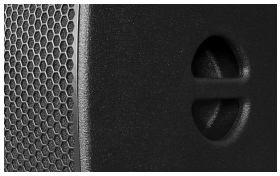
G Sub 1001 dp+

The G Sub 1001 is a compact, high powered 10" subwoofer with an integrated 2 channel amplifier and DSP controller. The second amplifier can be used to drive a HiMid loudspeaker or a passive subwoofer. The particularly low-profile form and high power-handling capabilities make the G Sub 1001 dp+ especially interesting for applications requiring precise bass reproduction and very unobtrusive installation. The integrated amplifier electronics are based on Class D power amplifiers, which are controlled via particularly low-noise FPGA DSP processing. Various factory-configured presets and volume settings can be called up. Remote monitoring and control is carried out via the Ethernet interface using SEEBURG Network Manager. Signal transmission (AoE) in accordance with the AES 67 standard is also possible.

PRODUCT SPECIFICATIONS

Speaker Components	10"
Description	Digitally Powered Bass Extension
Amp Power	Ch. 1 (internal): 500 W AES @ 4 Ω Ch. 2 (external): 500 W AES @ 4 Ω
Rated Current	0,75 A @ 230 V
SPL Peak @ 1 m	128 dB
Max. Input Signal	25 dBu
DSP	DPLMx FPGA Processing 32 bit floating point
AD / DA	24 bit / 96 kHz
Latency	0,8 ms (analog in to analog out)
Usable Range - 6 dB	44 Hz - 120 / 160 Hz
Tuning Frequency excursion minimum	53 Hz
Connectors	XLR in/thru, Ethercon, Powercon in/thru, 2 x Speakon NL4MP out
Handles	1 x
Rigging / Fittings	M20 on top
Weight	18,0 kg
Size height x width x depth	28,0 x 43,0 x 43,0 cm
Order No.	**00605/dp+**

M20 flange on top.



Comfortable handles for easy transport.

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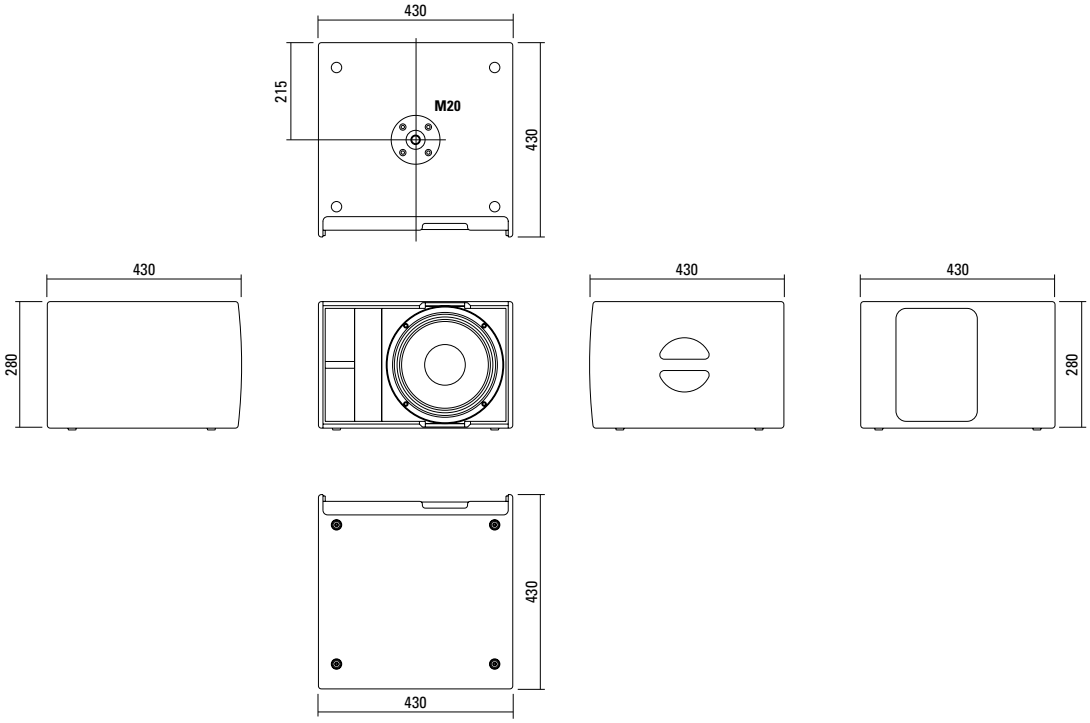
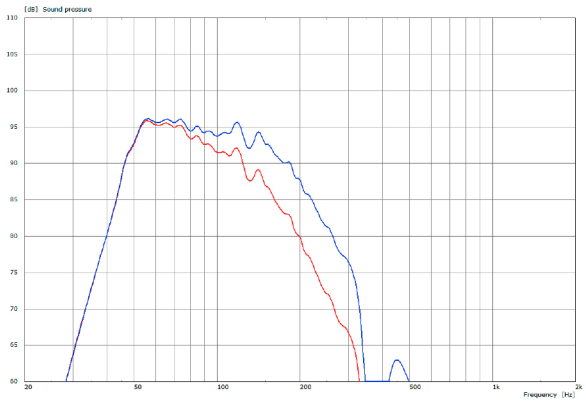
DIMENSIONS

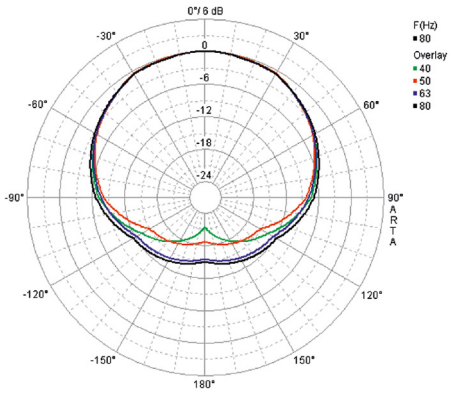


MEASUREMENTS

Frequency Response with Presets



Cardioid - Polar Diagram



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The G Sub 1001 dp+ features integrated digital amplifier electronics with a DSP controller (dp = digitally powered). Various factory-configured presets and volume settings can be called up directly on the box or via a network connection.

High-grade electronic components from the industrial sector and a first-class circuit design ensure excellent audio quality with low distortion and a minimal noise floor. Highly efficient and "intelligent" limiter systems ensure optimum protection against overload, without restricting the possibilities offered by this high-performance sound system.

Presets > Quick Start Manual

Level
Adjustment in 3 dB steps (-12 dB to + 6 dB).

Status

Mute LED
Red light when the system is muted or under technically critical conditions.

Limit LED
Yellow light when the limiter is restricting the level.

Signal LED
Green light when the input signal exceeds -20 dBu

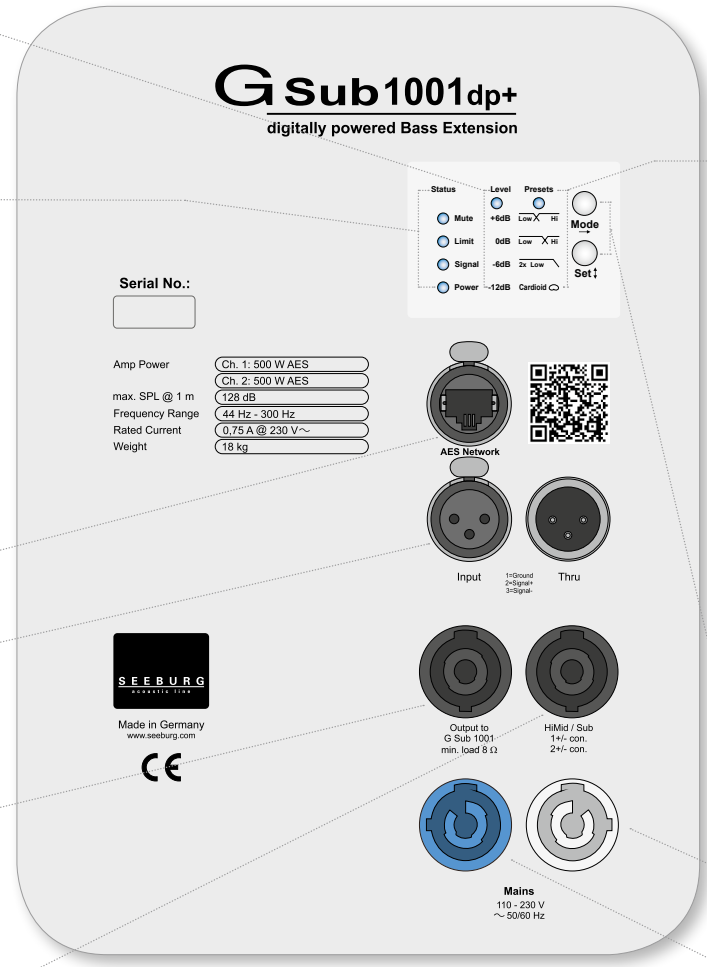
Power LED
Green light when the system is switched on.

Ethercon
Interface for remote control and audio transfer via ethernet (AES 67).

XLR
- Symmetrical analog input.
- Effective filter protection against HF interference and DC Voltages.
- Electronically balanced to prevent noise.

Speakon NL4MP
Parallel output connector for a passive G Sub 1001 with an 8 Ω impedance (2+/-). The mid-high signal from the seperate output is also present here on pins 1 +/- (compatible with our system cabling.)

Speakon NL4MP
Connector for passive tops or subs or both on the second amplifier channel. (pins 1 +/- top and 2 +/- sub).



Presets

Low/Hi
2-way active preset with a low crossover frequency. Suitable for use with larger passive top cabinets.

Low/Hi
2-way active preset with a higher crossover frequency. Suitable for use with compact passive top cabinets.

2 x Low
Subwoofer mode without tops with a low crossover frequency. Up to two G Sub 1001 can be connected to the right hand Speakon socket.
Power rating: 500 Watt / 4 Ω.

Cardioid mode
For directional bass reproduction in conjunction with one or two additional G Sub 1001 or G Sub 1001 dp+ systems. This mode is applied only to the rear-facing sub. The level reduction to the rear can be up to 20 dB, depending on the actual physical setup and the frequency.

Mode - key
Switches between control modes Status, Level and Presets.

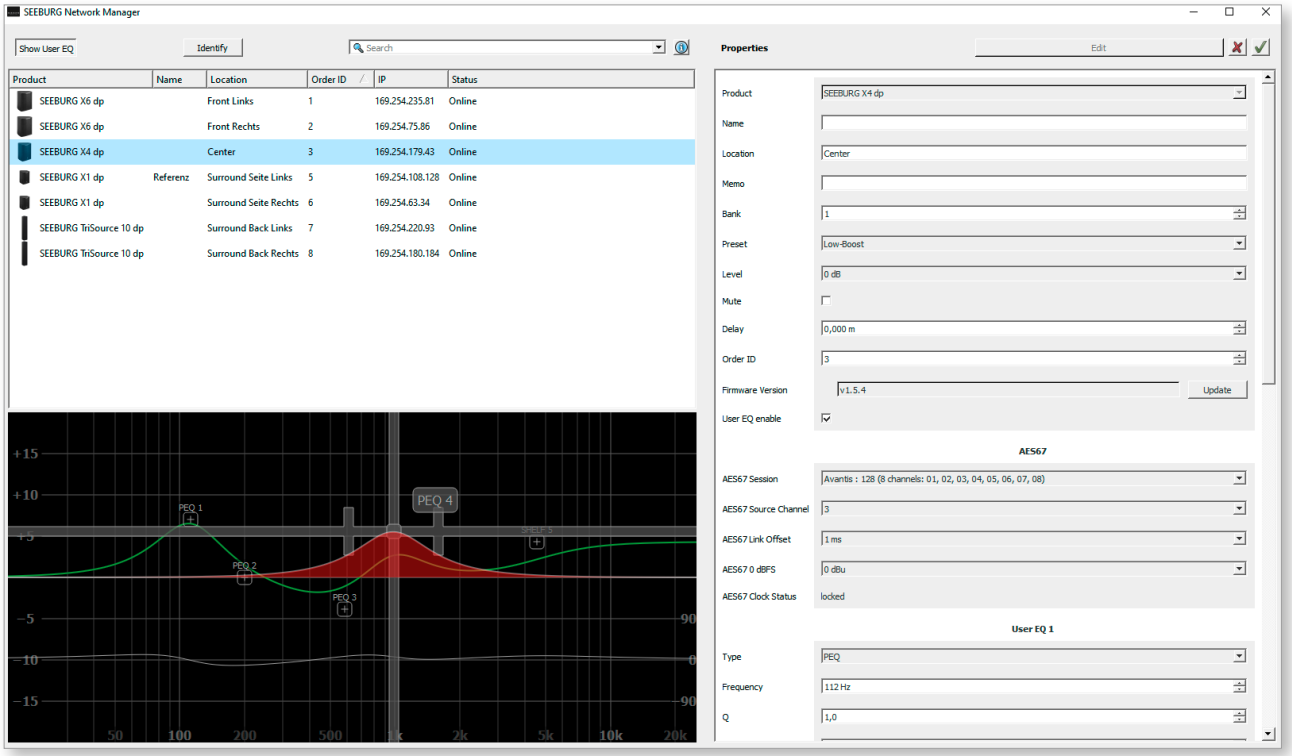
Set - key
Setting of various values and Mute on / off.

Powercon (grey)
~ 110-230 V / 16 A max.
Durchschleifbuchse

Powercon (blue)
Spannungsversorgung
~ 110-230 V / 16 A max.

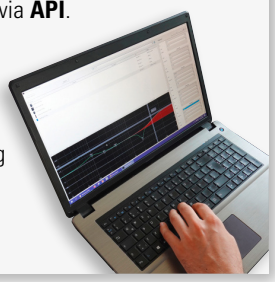
SEEBURG NETWORK Manager

With the Software SEEBURG Network Manager all selfpowered systems can be controlled via network.



Features:

- **Remote control** of functions such as recalling presets and banks, level control and mute, and locking the controls on the loudspeakers.
- **Visual display** of all systems connected to the control network.
- Storable names and location labels with a **global search function**.
- **Selection of loudspeakers** in the list for simultanious set-up and control changes.
- **Fully parametric user EQs and delay settings** for time alignment, with a graphical user interface
- **Time Delay** with up to **2.8 seconds runtime**.
- **Audio-over-Ethernet** (AoE) via **AES 67**.
- Connection with **media control systems** via **API**.
- Basic **network settings**.
- **Documentation** is available **online**.
- **Identification function** by way of flashing LEDs on the dp loudspeaker systems.
- **Firmware updates** can be applied.



Quick Start Guide:

www.seeburg.com > DOWNLOADS > User Manuals

AES NETWORK interface

All selfpowered systems are equipped as standard with an **AES Network interface**. This is used for **remote control** via the **SEEBURG Network Manager** and for **Audio-over-Ethernet (AoE) audio transmission** via **AES 67**.

AES Network

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ACCESSORIES G Sub 1001 dp+

Speaker Pole

M20, with wind up

Order No. **03023**

M20, adjustable

Order No. **03022**

Wall Mount

bar: 269 mm, max. load 40 kg,
incl. (M10 x 70 mm socket head screw,
M10 hex lock nut and flat washer)

Order No. **08130/F/269/w** (RAL 9010)
Order No. **08130/F/269**

Ceiling Mount

for Subwoofer,
2 parts, incl. screws

Order No. **08129**
Order No. **08129/w** (RAL 9010)

MultiRigg™ light

version for fixed installations,
for horizontal and vertical alignment,
incl. accessories (2 x M10 x 20 socket
head screws), max. load 50 kg

Order No. **01362**

Cover

for G Sub 1001, padded

Order No. **01226**

Hybrid Cable System

PowerCon-PowerCon / XLR-XLR

2,5 m	Order No. **08462**
5 m	Order No. **08464**
10 m	Order No. **08466**
15 m	Order No. **08468**

G Sub 1001 dp + / X 1

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