

# Bass Extension - digitally powered **G Sub 1501 dp++**



The G Sub 1501 dp++ is a universal 15" high-power subwoofer featuring a low-profile cabinet, 3-channel DSP electronics, and two signal inputs. Two supplementary integrated amplifiers are available to drive Hi-Mid or full-range systems. The 60 x 60 cm footprint allows stable deployment of larger Hi-Mid systems on a speaker pole. Good handling and solid bass response round off the package perfectly. 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

<b>Speaker Components</b>	15" Nd (4" VC)
<b>Description</b>	Digitally Powered Bass Extension
<b>Amp Power</b>	Ch. 1 (internal): 2400 W AES @ 4 Ω Ch. 2/3 (external): 2 x 800 W AES @ 4 Ω
<b>Rated Current</b>	4,0 A @ 230 V
<b>SPL</b> <small>Peak @ 1 m</small>	135 dB
<b>Max. Input Signal</b>	25 dBu
<b>DSP</b>	DPLMx FPGA Processing 32 bit floating point
<b>AD / DA</b>	24 bit / 96 kHz
<b>Latency</b>	0,8 ms (analog in to analog out)
<b>Usable Range</b>	35 Hz - 180 Hz (- 6 dB)
<b>Tuning Frequency</b> <small>excursion minimum</small>	42 Hz
<b>Connectors</b>	2 x XLR in, Ethercon, 2 x Speakon NL4MP out, Powercon in
<b>Handles</b>	2 x
<b>Rigging / Fittings</b>	M20 on top Wheel board fittings
<b>Weight</b>	30 kg (+ 6 kg wheel board)
<b>Size</b> <small>height x width x depth</small>	40,0 x 60,0 x 60,0 cm
<b>Order No.</b>	<b>00620/dp++</b>



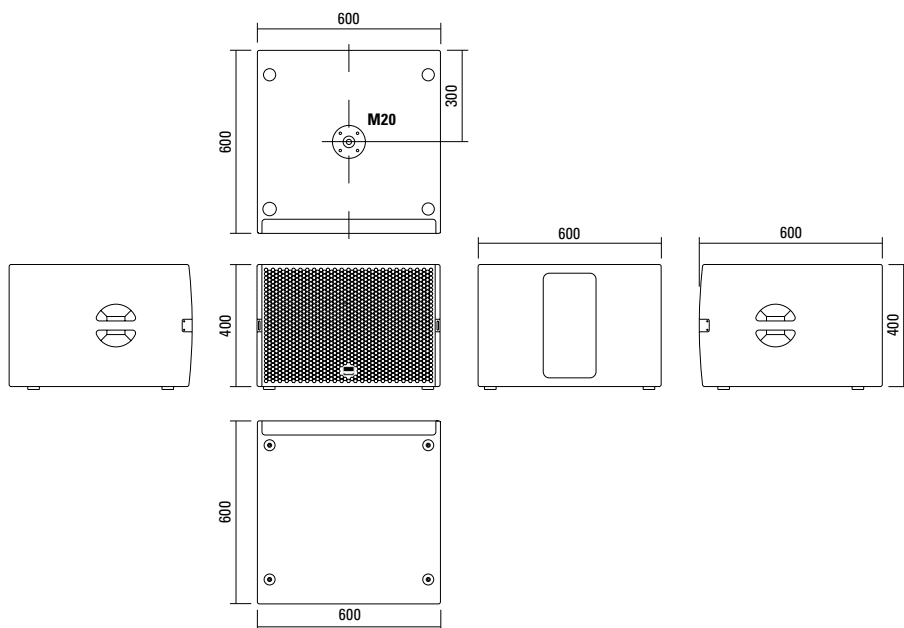
Robust honeycomb type speaker grille. Wheel board fittings.



M20 flange on top.



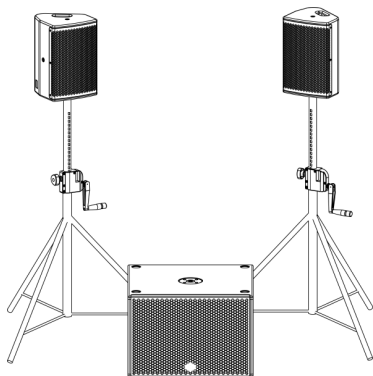
## DIMENSIONS



## APPLICATIONS

### Classical satellite system.

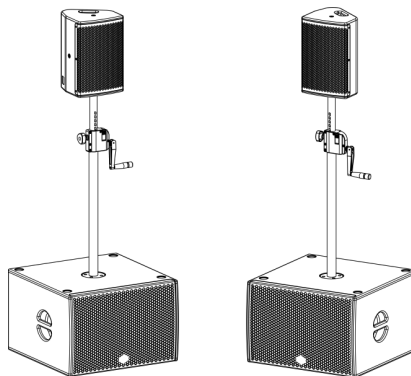
Sound system with a G Sub 1501 dp++ and two mid-hi systems (2 x 2 Stk. / 8 Ω). Very compact transport volume, und adequate sub-woofer power for smaller events.



### Classical satellite system with a passive G Sub 1501.

The solution for increased power and reach in the bass range.

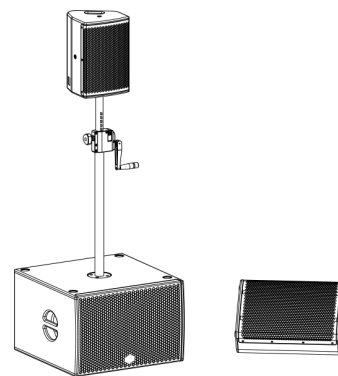
The sub-woofers can be used as mounts for speaker poles for the mid-hi systems. 2 x 2 pcs. / 8 Ω mid-hi systems can be connected.



### Mono system with separate loudspeaker.


In AUX mode, the B channel can be used to drive a separate, independant loudspeaker.

Possibilities include stage monitors or additional loudspeakers in the sound reinforcement system (e.g. near fills, under balcony speakers etc.) This variant also applies that an additional G Sub 1501 can be connected passively.



**The G Sub 1501 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**

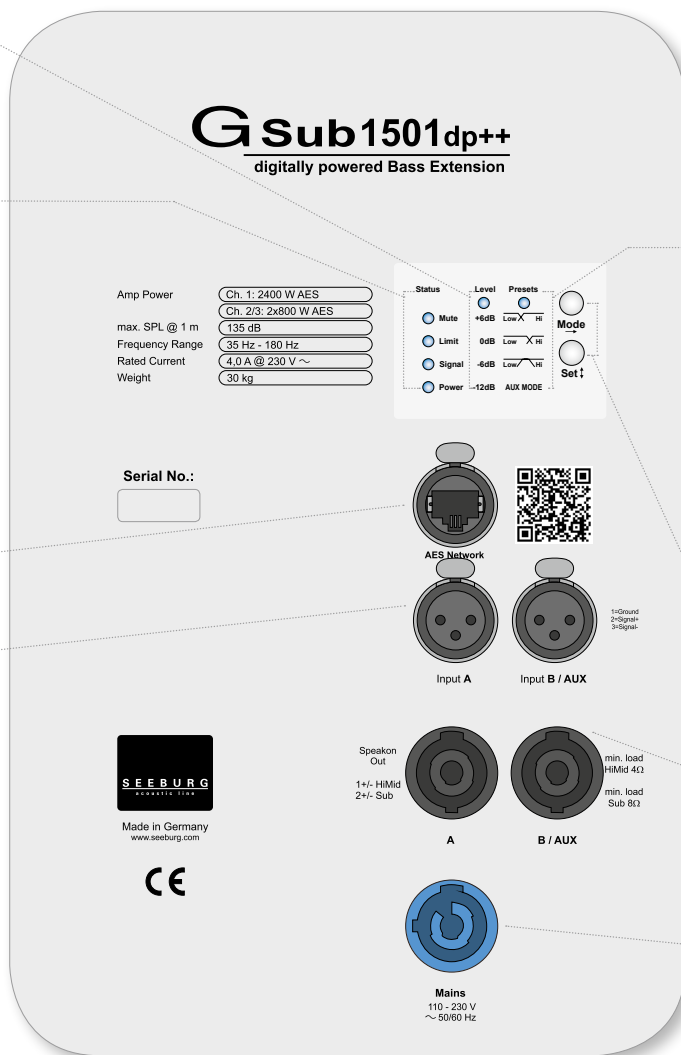
Green light when the system is switched on.

**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.



**Presets**

**Low/Hi**

2-way active preset with a 100 Hz crossover frequency. Suitable for use with larger passive top cabinets

**Low/Hi**

2-way active preset with a 140 Hz crossover frequency. Suitable for use with compact passive top cabinets.

**Low/Hi**

2-way active preset with an overlap in the cross-over frequencies. This enables a frequency response with added emphasis in the low-mid range.

**AUX MODE**

The signal present at the B/AUX input is passed as a full-range signal through the second amplifier channel, and appears as a loudspeaker signal on the speakon connector B/AUX.

**Mode - key**

Switches between control modes Status, Level and Presets.

**Set - key**

Setting of various values and Mute on / off.

**2 x Speakon NL4MP**

Pins 1+/- carry the hi-mid component of the A and B/AUX inputs respectively. Pins 2+/- carry the subwoofer signal, and can be used to drive a passive G-Sub 1501.

**Powercon (blue)**

Spannungsversorgung  
~ 110-230 V / 16 A max.

# SEEBURG NETWORK Manager

Über die Software SEEBURG Network Manager können alle selfpowered Systeme über Netzwerk gesteuert und kontrolliert werden.

Product	Name	Location	Order ID	IP	Status
SEEBURG X6 dp		Front Links	1	169.254.235.81	Online
SEEBURG X6 dp		Front Rechts	2	169.254.75.86	Online
SEEBURG X4 dp		Center	3	169.254.179.43	Online
SEEBURG X1 dp	Referenz	Surround Seite Links	5	169.254.108.128	Online
SEEBURG X1 dp		Surround Seite Rechts	6	169.254.63.34	Online
SEEBURG TriSource 10 dp		Surround Back Links	7	169.254.220.93	Online
SEEBURG TriSource 10 dp		Surround Back Rechts	8	169.254.180.184	Online

The Properties panel for 'SEEBURG X4 dp' shows the following settings:

- Name: (empty)
- Location: Center
- Memo: (empty)
- Bank: 1
- Preset: Low-Boost
- Level: 0 dB
- Mute: (unchecked)
- Delay: 0,000 m
- Order ID: 3
- Firmware Version: v1.5.4 (Update button)
- User EQ enable: (checked)
- AES67 Session: Avants : 128 (8 channels: 01, 02, 03, 04, 05, 06, 07, 08)
- AES67 Source Channel: 3
- AES67 Link Offset: 1 ms
- AES67 0 dBFS: 0 dBu
- AES67 Clock Status: locked
- User EQ 1: (empty)
- Type: PEQ
- Frequency: 112 Hz
- Q: 1,0

The graph below the table shows a frequency response curve with four parametric equalizers (PEQ 1, 2, 3, 4) applied. The x-axis represents frequency from 50 Hz to 20 kHz, and the y-axis represents gain from -15 dB to +15 dB.

## Features:

- > **Fernsteuerung** der Anschlussfeld-Funktionen wie Presets, Abruf der Bänke und Pegeleinstellungen sowie Sperr- und Mutfunktionen.
- > **Visuelle Darstellung** der im Netzwerk befindlichen Systeme.
- > Speicherbare Namens- und Positionsangaben mit **globaler Suchfunktion**.
- > **Gleichzeitige Bearbeitung** ausgewählter Lautsprecher.
- > **Vollparametrische User EQs und Delays** für Time Alignment inkl. graphischer Oberfläche.
- > **Time Delay** mit bis zu **2,8 Sekunden Laufzeit**.
- > **Audio-over-Ethernet (AoE)** mittels **AES 67**.
- > Grundlegende **Netzwerkeinstellungen**.
- > Anbindung an **Mediensteuerung** mittels **API**.
- > **Dokumentation online** verfügbar.
- > **Identifizierungsfunktion** durch Aufleuchten der LEDs an der dp-Box.
- > **Firmware Updates** können aufgespielt werden.



 [SEEBURG Network Manager > Quick Start Manual \(pdf\)](#)

## AES NETWORK Schnittstelle

Alle dp Systeme verfügen serienmäßig über eine **AES Network Schnittstelle**. Diese dient zur **Fernsteuerung** über den **SEEBURG Network Manager** und zur **Audio-over-Ethernet (AoE) Audioübertragung** mittels **AES 67**.



AES Network

## ACCESSORIES G Sub 1501 dp++

### Speaker Pole

M20, with wind up  
Order No. **03023**



M20, adjustable  
Order No. **03022**



### Speaker Pole

250 mm, ø 35 mm, M20,  
with ring lock  
Order No. **03020**



### Wall Mount

bar: 400 mm, max. load 40 kg,  
incl. (M10 x 70 mm socket head screw,  
M10 hex lock nut and flat washer)  
Order No. **08130/F400/w** (RAL 9010)  
Order No. **08130/F400**



### 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 1501,  
by using wheel board  
Order No. **01239/WB**



### Cover

for G Sub 1501,  
without wheel board  
Order No. **01239**



### Wheel Board

for G Sub 1501,  
stackable, 6 kg  
Order No. **01267**



### 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**

