

# GROUND ZERO<sup>®</sup>

GERMAN ENGINEERING



2022 / 2023

# GROUND ZERO®

## GERMAN ENGINEERING

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*Sophisticated car audio since 1995*

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### **The Rise of the GROUND ZERO Company**

GROUND ZERO has been founded back in 1995 by Karl Felix Lautner distributing car audio products "Made in USA" and introduced the revolutionary subwoofers of GZ Engineering USA to the European market in 1997.

The following years, the German company took over the European trademark rights of "GROUND ZERO" and started developing market specific products.

Finally, 2003 the GROUND ZERO GmbH took over all global trademarks from the discontinued US company and expanded the distribution to customers worldwide.

Today, more than 400 sophisticated audio products developed and designed at the GROUND ZERO in-house engineering department are available in more than 65 countries globally.

### **Ensuring Superior Quality of GROUND ZERO Products**

The GROUND ZERO product range includes speakers, subwoofers, amplifiers and further digital audio equipment for enthusiastic customers. Satisfying high demands and quality, Ground Zero carefully monitors every step of the production starting at the development using top-notch tools and highly accurate measurement equipment such as the laser controlled KLIPPEL® system to optimize every detail.

Precise amplifier measurement equipment by Audio Precision® results in power ratings corresponding to the acknowledged CEA 2006-A standard. Without exceptions, every single product is evaluated by extensive testing and quality control prior to its final production release and market launch.

### **On the Winner´s Side with GROUND ZERO**

Many international car audio journals confirm the highest product quality impressing even sophisticated customers. However, the most convincing evidence is provided by the huge amount of GROUND ZERO equipped cars worldwide.

With an outstanding audio performance, they succeed to be part of the winner´s circle of European and World SQ and SPL Championships every season.

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## REFERENCE ULTRA SERIES

„ul·tra“

Beyond the range of limits,  
Beyond the ordinary,  
Beyond the others.

### High-End Performance

After collecting detailed experience in SQ performance and general in-car audio reproduction for more than 25 years during the development of loudspeakers, subwoofers and amplifiers for highly demanding customers and having launched a wide range of car audio products used for sound quality competitions all over the world, GROUND ZERO has started to take advantage of all these gathered skills devising a very new and super high-end product line called the ULTRA series. Not yet launched but though obviously, this line will set once more a remarkable milestone in car audio history. For the most sophisticated demands, GROUND ZERO introduces an extraordinary two-channel amplifier and matching loudspeakers in 2022! ULTRA series products are developed by highly attentive engineers from England, Sweden and Germany creating products for the most demanding customers without accepting any compromise in overall quality and SQ performance.

Model specifications

General information



GZ ULTRA A-2  
 Ultra-high-end 2-channel amplifier  
 S/N ratio > 120 dBA  
 2x 200 / 330 / 450 W @ 4 / 2 / 1 Ω  
 Bridged mode 1200 W max @ 2 Ω  
 Full-symmetrical dual-mono design  
 Made in England



Objects designated as high-end are assigned to this category based on the assumption that they belong to the top segment of a respective product group and are generally characterized by unusual, exceptional and exclusive features and a very high manufacturing quality.

In our opinion, the concept of real high-end is defined much more extensively by experiencing feelings and the resulting impression when listening to your favourite music using such devices. Therefore, it was the only, constant and uncompromising goal in the development of the ULTRA series to achieve that tingling sensation that goes along with the goosebumps when the ear lets us perceive things that go beyond the spectrum that can only be recorded with a test microphone.

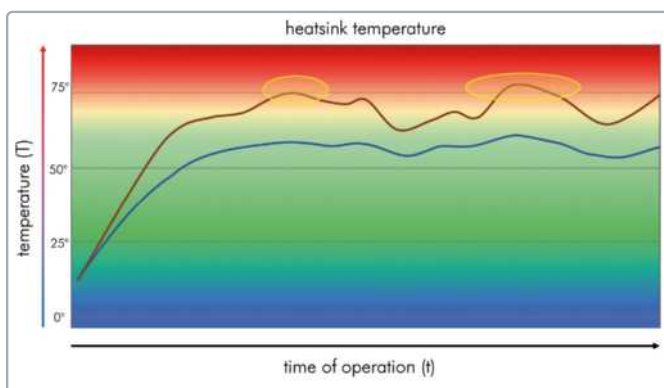
The results of three years of development, uncountable listening sessions, comparisons, tuning and testing led to the GZ ULTRA A-2, the most advanced analogue amplifier on the market uniting perfectly selected components reduced to the minimum of distractingly influencing aspects by the overall and undisputed skills of one of the best-known and famous amplifier engineers from England bringing more than 30 years of experience into this design while creating a masterpiece of an amplifier, matching our and everybody's most sophisticated expectations and finally, worth to be called ultra-high-end.

Features:

- Ultra-high-end analogue 2-channel amplifier
- Made in England
- Full-symmetrical dual-mono layout design
- Swiss-made high-end ELMA selector switches
- Two-step BIAS selector
- Four-step input sensitivity selector
- Potentiometer-less and OPA-less direct signal path
- Direct and short signal path
- GZ-exclusive MUNDORF® audio capacitors
- Nichicon (Japan) & WIMA® (Germany) components
- High-end SANKEN® Darlingon power transistors
- Precision-winded transformer coils
- Rhodium RCA sockets
- Tinted-acrylic bottom plate
- Switchable white pcb illumination
- High-efficient extruded aluminum heat sink
- Ready for custom liquid-cooling (available separately)
- Documented final technical inspection
- Wooden box packaging



Since the heat sink temperature of an amplifier without an active liquid cooling rises and drops in correspondence to the output power quite quickly, the optimum operating temperature of the amplifier might be left in some periods of huge power output operation (marked yellow). In contrast to this, active liquid cooled amplifiers usually remain within the optimum operation temperature more independently from the power output.



Special heatsink design for additional liquid cooling



Ready for standard liquid cooling connectors (available separately)

## General information

Sound is something very subjective. Everyone perceives it differently because each ear also hears differently. Consequently, it is hardly possible to predict how the audio playback will be perceived individually. For this reason, it is difficult to develop a so-called perfect speaker. Rather, the aim of the development is to avoid any error, no matter how small it could be, caused by the loudspeaker. Above all this, the interaction of several loudspeakers used for the entire audible frequency range, and even beyond that, with the signal source and the connected power amplifier is decisive for the result and determines whether the music touches the listener emotionally or not.

In only logical consequence, the ULTRA T-30 tweeter was designed and fine-tuned together with the matching midwoofer and driven by the extraordinary ULTRA series amplifier to its final stage ready to impress the listener with an outstanding performance when reproducing the upper frequency range of the audio signal by not less than perfect performance.

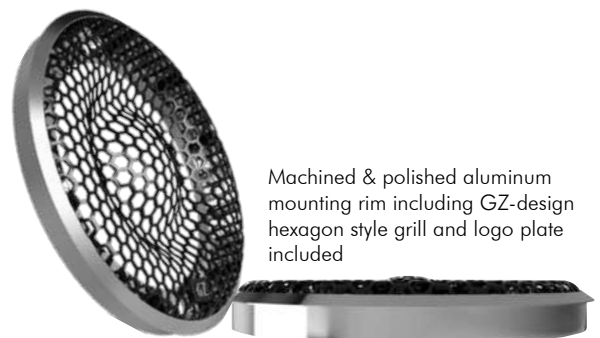
### Features:

- Ultra-high-end 30 mm / 1.18" soft dome tweeter
- Tightly-tolerated technical parameters
- Precision-coated textile diaphragm
- Dual-piece neodymium motor
- Vented voice coil former reducing distortion
- Lightweight CCA voice coil improving efficiency
- Particular dome damping balancing pressure
- Machined aluminum chamber with wave diffuser
- ULTRA-grey color anodized housing
- Flexible lead wires increasing power handling
- GZ-design wave-guide face plate
- GZ-design mounting ring & hexagon style grill
- Gold-plated multiway terminal
- Documented final technical inspection
- Wooden box packaging / in matching pairs

## Model Specifications

### GZ ULTRA T-30

Ultra-high-end soft dome tweeter  
100 W RMS / 150 W max  
Freq. response 1000 Hz – 26 kHz  
Resonance frequency 500 Hz



Machined & polished aluminum mounting rim including GZ-design wave-guide face plate and logo plate included



Model specifications

GZ ULTRA K-165  
 Ultra-high-end midwoofer  
 100 W RMS / 160 W max  
 Freq. response 45 Hz – 5 kHz  
 Resonance frequency 43 Hz  
 Made in Germany

General information

The most sensitive frequency range of human hearing is the midrange spectrum. In 2-way loudspeaker setups this essential part of the audio signal used to be covered rather by the midwoofer than by the tweeter. For this reason, the target of development must be a smooth wide band response starting from a low resonant frequency up to the crossover point where the tweeter takes over. At the same time high-dynamical performance and consistent audio reproduction quality at each desired output level are major requirements.

Design follows function. In fact, the design of the ULTRA K-165 midwoofer is way more than just imposing cosmetics. The unique basket consists of a set of machined aluminum parts providing maximum stability for the moving parts but showing no disturbing influences owing to an airflow optimized shape of the spokes. Two layers of carbon-fleece, impregnated with a polymeric resin and a layer of special damping in-between are united under high temperature and pressure resulting in a high-strength, exceptionally torsional-rigid but though extremely lightweight sandwich cone. Together with a powerful high-grade neodymium motor that's the perfect basis for the intended purpose of the midwoofer driver, sounding and performing unrivaled great.

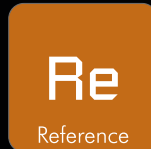
Features:

- Ultra-high-end 165 mm / 6.5" midwoofer
- Tightly-tolerated technical parameters
- Lightweight carbon-fleece sandwich cone
- High-excursion linear moving rubber surround
- High-grade neodymium motor
- Vented voice coil former reducing distortion
- Copper wire voice coil increasing power handling
- GZ-design basket from machined aluminum parts
- Optimized motor and voice coil ventilation
- Airflow-optimized aluminum cast spokes
- Flexible spider-woven lead wires
- Documented final technical inspection
- Wooden box packaging / in matching pairs
- GZ ULTRA 165-GRILL protection grills (available separately)



GZ ULTRA 165-GRILL  
 For perfect custom installations and decent visible appearance, GROUND ZERO offers a pair of GZ-design hexagon style protection grills and massive machined aluminum mounting rims with a polished surface matching perfectly the GZ ULTRA K-165 midwoofers.





## REFERENCE SERIES

### Pure High-End Sound Quality

The EISA awarded REFERENCE series components obtain the highest attention and care during a long-lasting development. Without any compromise, each component is selected from the best ones available on the market. Highest production quality and the most accurate supervision of every single part ensure not less than perfect performance, ultimate sound quality and workmanship for the most demanding applications. Emphasizing the high-end status of the REFERENCE series products, each amplifier, speaker and subwoofer is finally certified by GROUND ZERO's in-house quality department and delivered in a classy, logo-branded wooden box handmade in Germany.



Model specifications

General information



GZPA Reference 4PURE-SQ  
High End Pure SQ 4-channel amplifier  
4x 150 / 270 / 425 W @ 4 / 2 / 1 Ω  
Bridged mode 2x 1000 W max @ 2 Ω  
Symmetrical dual 2 channel design



GZPA Reference 2PURE  
High End Pure SQ 2-channel amplifier  
2x 420 / 750 / 1150 W @ 4 / 2 / 1 Ω  
Bridged mode 1x 2700 W max @ 2 Ω  
Symmetrical dual mono design

The designation of the REFERENCE 2PURE and REFERENCE 4PURE-SQ amplifiers reveal the essential idea behind: Pure Sound Quality. These two models waive all kind of filters and unnecessary controllers influencing the signal. Removing these parts leads to a circuit layout with short and direct signal flow from the input sockets to the speaker terminals. The components used for the REFERENCE amplifiers have been selected with highest care opposing any compromises and have partly been engineered exclusively for the REFERENCE PURE models.

The upgraded 4-channel SQ amplifier has been improved using some latest electronical parts available on the market. These changes allow a wider BIAS range setting increasing the ambience of the music reproduction. The power supply has been separated electrically and physically leading to an absolutely symmetrical layout of the circuit that is the basis for these dual-mono and dual-stereo amplifiers. The output power of up to 1150 Watts per channel provides another contribution to the precise and detailed REFERENCE sound, punchy and dynamic, warm and enjoyable.

Common features:

- High-end SQ amplifiers
- Variable BIAS setting
- Symmetrical design
- Separated L & R gain controls
- No filters – PURE and direct sound
- Rhodium RCA sockets
- Audio-optimized ALPS® potentiometers
- High-end SANKEN power transistors
- GZ-exclusive MUNDORF® audio capacitors
- White pcb illumination
- Tinted-acrylic bottom plate
- Wooden box packaging

REFERENCE Subwoofer

Model specifications

General information



GZPW Reference 250  
High End 250 mm / 10" subwoofer  
500 W RMS / 2x 2 Ω  
31.3 Hz / Qts 0.50  
VAS 36.5 L / 1.29 ft³

Made in Germany

For most accurate bass performance, the unique REFERENCE subwoofer comes with a lot of particular solutions, such as a number of linearization parts added to the magnet system optimizing the impedance and eliminating distortion. This exceptional subwoofer has been optimized to perform in small enclosures.





## PLUTONIUM SERIES

### High-End Experience

Products belonging to the PLUTONIUM series are suitable for ultimate sound quality, world record SPL levels or even extreme low frequency response. To achieve one of these targets, exceptional materials and technologies are applied during the development.

The technical, electrical and mechanical skills of the resulting products stand out continuously at worldwide SPL and SQ competitions. The unique 15" neodymium driven subwoofer sets SPL level benchmarks while the SQ amplifiers have been awarded by EISA representing numerous car audio test magazines from all around the world for as best performing amplifier of the year.

Model specifications

**GZPA 2SQ**  
 High performance SQ 2-channel amplifier  
 2x 175 / 315 / 500 W @ 4 / 2 / 1 Ω  
 Bridged mode 1x 1000 W max @ 2 Ω  
 High-resolution response



**GZPA 4SQ**  
 High performance SQ 4-channel amplifier  
 4x 125 / 225 / 350 W @ 4 / 2 / 1 Ω  
 Bridged mode 2x 700 W max @ 2 Ω  
 High-resolution response



General information

The PLUTONIUM series contains two sound quality amplifiers simply leaving no wishes unfulfilled.

The 4-channel version has been awarded by the EISA organization as the world's best in-car amplifier 2018/2019.

Common features:

- Shielded dual power supply
- High-end sound quality amplifier
- Discretely constructed MOS-FET amplifier section
- 1-ohm stable stereo / 2-ohms stable in bridged mode
- Smoothly variable BIAS adjustment
- Variable input sensitivity
- Capsulated potentiometers
- Wide range high pass and low pass filter
- Filter range multiplication switch (x10)
- High resolution frequency range (10 Hz – 50 kHz)
- Soft start delay
- Operation and protection indicator
- Start-Stop capability (9 -16 Volt)
- Overheat and short circuit protection
- Low distortion Burr-Brown OPA2134PA operation amps
- Exclusively manufactured Mundorf Mcap® capacitors
- Solid and high-efficient black anodized heatsink
- White illuminated lasered glass logo plate
- Winner of the German Design Award 2020 (PA 4SQ)





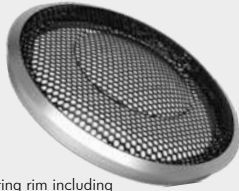
## General information

The all-new PLUTONIUM series loudspeaker components have been developed for highly sophisticated sound quality requests.

Lightweight but stable aluminum-ceramics cones for the midwoofer and midrange ensure highest dynamic performance in combination with the stainless-steel housed silk dome tweeter or full range speaker which are handmade in Germany. The drivers are available separately for individual 2-way or 3-way full active SQ setups.

Common features:

- High-end speakers for full active SQ applications
- GZPT and GZPF speakers handmade in Germany
- Resonance free aluminum cast basket
- High-tech ceramic-coated aluminum cone
- Impedance linearizing copper caps
- Powerful Klippel® optimized hybrid motors
- High-dynamic audio reproduction
- Stainless steel tweeter & full range speaker housing



### GZ ULTRA 165-GRILL

Machined & polished aluminum mounting rim including GZ-design hexagon style grill and logo plate (1 pair)

## Model Specifications

### GZPC 165.2SQ-ACT

High-end 2-way set for active applications  
 Freq. response 30 – 30000 Hz  
 Components:  
 GZPT 28SQ  
 GZPK 165SQ-C



### GZPC 165.3SQ-ACT (coming soon)

High-end 3-way set for active applications  
 Freq. response 30 – 30000 Hz  
 Components:  
 GZPT 28SQ  
 GZPM 80SQ-C  
 GZPK 165SQ-C



## PLUTONIUM Loudspeaker components



### GZPT 28SQ

High-end 28 mm / 1.1" silk dome tweeter  
 100 W RMS / 150 W max

Made in Germany



### GZPF 40SQX

High-end 40 mm / 1.6" full range speaker  
 50 W RMS / 80 W max

Made in Germany



### GZPM 80SQ-C (coming soon)

High-end 80 mm / 3.15" midrange speaker  
 70 WRMS / 110 WMAX



### GZPK 165SQ

High-end 165 mm / 6.5" midwoofer  
 140 WRMS / 200 WMAX

## PLUTONIUM SQ Subwoofer

### General information

GROUND ZERO engineers and product designers were concentrated on developing this amazing high-end sound quality subwoofer. Optimized for small sealed enclosures for highest audiophile expectations, this 25 cm / 10" SQ model is now available.

Features:

- 25 cm / 10" high-end sound quality subwoofer
- Klippel® optimized (for sealed enclosures)
- Anodized aluminum cone and dust cap
- Solid aluminum cast basket
- Rubber surround
- Copper wire voice coil
- Aluminum cast fastening rim/grill included

### Model Specifications

### GZPW 10SQ

High-end sound quality subwoofer  
 400 W RMS / 2x 2 Ω



Aluminum cast fastening rim and grill included

Model specifications

GZPW 15NEO-SPL  
 High power SPL subwoofer  
 3000 W RMS / 10000 WSPL / 2x 1 Ω

General information

GROUND ZERO introduced the ultimate SPL subwoofer for competition use with the PLUTONIUM series neodymium-driven top-of-the-line 38 cm / 15" model. Starting from the market release, this subwoofer has set benchmarks in all SPL competitions around the world.

Features:

- 38 cm / 15" high power SPL subwoofer
- Multi-piece neodymium motor
- Klippel® optimized
- Carbon fiber mixed cone
- SPL U-shape surround
- Solid aluminum cast basket
- 100 mm / 4" flat wire voice coil
- 4-layer Nomex spider
- Carbon fiber dust cap



PLUTONIUM XXmax Subwoofer

Model specifications

GZPW 15XXmax  
 15" high-power long stroke subwoofer  
 6000 W RMS / 2x 1 Ω

General information

The PLUTONIUM series XXmax subwoofer follows in the footsteps of the legendary GZPW 15XQ setting a new benchmark for cone excursions. Using only components with extremely high-power handling and an even stronger ferrite motor than its Xmax predecessor.

Features:

- 38 cm / 15" high-power long stroke subwoofer
- Klippel® optimized
- Solid Aluminum cone and dust cap
- Long stroke foam surround
- Solid aluminum cast basket
- 100 mm / 4" aluminum flat wire voice coil
- 4-layer Nomex spider





## NUCLEAR SERIES

### Ultimate Performance

With several particular features of the high-end PLUTONIUM series, the NUCLEAR series contains amazingly sounding new midwoofers with high-tech cones as well as a silk dome tweeter with a solid aluminum housing, each at a remarkable price-performance ratio. Moreover, there is a number of extraordinary power capable subwoofers available, suitable for high-level audio setups as well as for raw SPL competition use.

## Model specifications

## General information



**GZNC 165.2SQ-ACT**  
 High-tech 2-way set for active applications  
 Freq. response 40– 25000 Hz  
 Components:  
 GZNT 28SQ  
 GZNK 165SQ-K

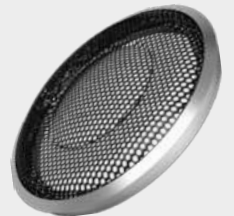
The all-new NUCLEAR series loudspeaker components have been developed together with the latest PLUTONIUM models. High-tech Kevlar® cones used for the midwoofer and upcoming midrange driver provide clear and dynamic audio reproduction. Both can be combined individually to a 2-way or 3-way full active SQ setup with the precision coated silk dome tweeter.

### Common features:

- High-tech speakers for full active SQ applications
- Resonance free aluminum cast basket
- High-tech Kevlar® cones
- Impedance linearizing copper caps
- Powerful Klippel® optimized hybrid motor
- Clear and dynamic audio reproduction
- Precision coated silk dome tweeter
- Solid aluminum housing with GZ design fastening rim



**GZNC 165.3SQ-ACT (coming soon)**  
 High-tech 3-way set for active applications  
 Freq. response 40 – 25000 Hz  
 Components:  
 GZNT 28SQ  
 GZNM 80SQ-K  
 GZNK 165SQ-K



**GZ ULTRA 165-GRILL**  
 Machined & polished aluminum mounting rim including  
 GZ-design hexagon style grill and logo plate (1 pair)

## NUCLEAR Loudspeaker components



**GZNT 28SQ**  
 High-tech 28 mm / 1.1" silk dome tweeter  
 Solid aluminum housing  
 90 WRMS / 140 WMAX



**GZNM 80SQ-K (coming soon)**  
 High-tech 80 mm / 3.15" midrange speaker  
 70 WRMS / 110 WMAX



**GZNK 165SQ-K**  
 High-tech 165 mm / 6.5" midwoofer  
 130 WRMS / 190 WMAX



## NUCLEAR SPL Subwoofer

### General information

Taking the time to launch a worthy successor for the legendary NUCLEAR SPL subwoofers, GROUND ZERO developed two extraordinary power capable models with huge SPL output for daily use and SPL competition purpose. This new model is available in a double 2-ohms and a double 1-ohm version.

#### Common features:

- High-power SPL subwoofer
- Klippel® optimized
- Reinforced paper cone and dust cap
- Long stroke foam surround
- Solid aluminum cast basket
- 75 mm / 3" aluminum wire voice coil
- 4-layer Nomex spider

### Model specifications

**GZNW 30SPL-D1**  
High power SPL subwoofer  
3000 W RMS / 6000 W SPL / 2x 1 Ω

**GZNW 30SPL-D2**  
High power SPL subwoofer  
3000 W RMS / 6000 W SPL / 2x 2 Ω



**GZNW 38SPL-D1**  
High power SPL subwoofer  
3500 W RMS / 7000 W SPL / 2x 1 Ω

**GZNW 38SPL-D2**  
High power SPL subwoofer  
3500 W RMS / 7000 W SPL / 2x 2 Ω



## NUCLEAR NEO-SPL Subwoofer

### General information

Using carbon fiber instead of pressed paper increases the maximum amount of power usable for the EXTREME version of the NUCLEAR NEO-SPL subwoofer.

#### Features:

- 38 cm / 15" high power SPL subwoofer
- Multi-piece neodymium motor
- Klippel® optimized
- U-shape high roll SPL surround
- Solid aluminum cast basket
- 75 mm / 3" 8-layer aluminum voice coil
- 3-layer Nomex spider

### Model specifications

**GZNW 38NEO-SPL**  
High power SPL subwoofer  
Reinforced pressed paper cone  
2500 W RMS / 5000 W SPL / 2x 1 Ω

**GZNW 38NEO-EXTREME**  
High power SPL subwoofer  
Coated carbon-fiber cone  
3000 W RMS / 6000 W SPL / 2x 1 Ω



**Model specifications**

GZNW 12SPL-Xflex  
 High performance SPL subwoofer  
 2500 W RMS / 4500 W SPL / 2x 1 Ω



**General information**

Paired with the yellow colored surround stitch and an ultra-solid as well as perfectly ventilated aluminum cast basket, the SPL-Xflex subwoofer with powerful ferrite motor are predestined for high level audio setups. The particular Xflex high roll surround combines high excursion capability with flexibility for low frequency music reproduction.

**Features:**

- High performance SPL music subwoofer
- Klippel® optimized
- Reinforced paper cone
- SPL high-roll Xflex surround
- Solid aluminum cast basket
- 75 mm / 3" CCA round wire voice coil
- 4-layer progressive spider
- IMPP dust cap with 3D structure logo

**NUCLEAR Xmax Subwoofers**

**Model specifications**

GZNW 12Xmax  
 High performance long stroke subwoofer  
 3000 W RMS / 2x 1 Ω



GZNW 15Xmax  
 High performance long stroke subwoofer  
 4000 W RMS / 2x 1 Ω



**General information**

The NUCLEAR line Xmax subwoofers share some of the features of the PLUTONIUM series top subwoofer and expand the line of high excursion models providing excellent low bass performance.

**Common features:**

- High power low bass subwoofers
- Klippel® optimized
- Aluminum cone and dust cap
- Long stroke compound surround
- Solid aluminum cast basket
- 75 mm/ 3" CCA round wire voice coil
- 4-layer Nomex spider



## URANIUM SERIES

### Amazing Sound Quality

Each product of the URANIUM series has been developed carefully to fulfill the demands of music enthusiasts with high audiophile expectations at a reasonable price level. Applying all of Ground Zero's sound quality competition experience while tuning the product details carefully, results in emotional and amazing audio reproduction. The distinguished amplifiers point out the main purpose by their designation: SQ beyond the average!

**EISA**  
AWARD

**Best Product**  
2021-2022

IN-CAR SPEAKER SERIES  
Ground Zero Uranium SQ



## General information

The brand-new URANIUM SQ amplifier generation point out the main purpose by their designation. Many particular features, e.g., Darlington array power transistors and BURR-BROWN® operational amps and the wide-range BIAS control provide an amazing SQ performance. Highly accurate and variable wide-band filters form the basis for various combinations of passive or even full-active loudspeaker setups.

### Common features:

- Class A/B SQ amplifier
- Adjustable BIAS control
- Latest BURR-BROWN® operational amplifiers
- Darlington power transistors
- High-end audio capacitors
- 1-ohm load stable in stereo mode (GZUA 2SQ)
- Variable high pass & low pass filters
- Stabilized power supply
- Ready for Start/Stop vehicles
- Re-designed noble & stylish heatsink
- Gold-plated terminals

### Variable BIAS control

The BIAS setting affects the operation mode of an amplifier. Pure class A amplifiers sound warm creating a pleasant atmosphere. Compared to that, class A/B amplifiers provide a more direct and dynamic sound. The BIAS setting of the URANIUM SQ amplifiers is therefore adjustable within a wide range to match the customers requirements.

## Model specifications

### GZUA 2SQ

Class A/B 2-channel SQ amplifier  
2x 170 / 300 / 450 W @ 4 / 2 / 1 Ω  
1x 1080 W max @ 2 Ω in bridged mode  
Wired remote control included



### GZUA 4SQ

Class A/B 4-channel SQ amplifier  
4x 115 / 185 W @ 4 / 2  
2x 440 W max @ 4 Ω in bridged mode



### GZUA 6SQ

Class A/B 6-channel SQ amplifier  
4x 110 / 160 W + 2x 150 / 270 @ 4 / 2 Ω  
2x 380 + 650 W max @ 4 Ω in bridged mode





Model specifications

General information



**GZUC 165.2SQ**  
 SQ 2-way component speaker system  
 140 W RMS / 230 W MAX  
 Freq. response 40 – 25000 Hz

**GZUC 165.2SQ-ACT**  
 SQ 2-way set for full active applications  
 Freq. response 40 – 25000 Hz  
 Components:  
 GZUK 165SQ  
 GZUT 28SQ(X)



**GZUC 165.3SQ**  
 SQ 3-way component speaker system  
 160 W RMS / 250 W MAX  
 Freq. response 40 – 25000 Hz

**GZUC 165.3SQ-ACT**  
 SQ 3-way set for full active applications  
 Freq. response 40 – 25000 Hz  
 Components:  
 GZUK 165SQ  
 GZUM 55SQ  
 GZUT 28SQ(X)

Using particular materials for cones and running hours of accurate tuning during the development, these speakers provide an amazing sound quality performance.

Apart from the separately available components, GROUND ZERO offers some models compiled to high quality passive speaker systems.

Common features:

- High-tech speakers for ambitious SQ-applications
- GZ design aluminum cast basket
- High-efficient neodymium motor
- Black aluminum cone
- Rubber surround
- 28 mm / 1.1" coated silk dome tweeter
- 55 mm / 2.17" silk dome midrange (3-way only)
- Variable 12 dB/oct crossover
- Klippel® optimized ferrite and neodymium motors
- GZ- design hexagon style protection grill



GZTH 25-28B

Optional tweeter housing for GZUT 28SQ/SQX

URANIUM SQ Loudspeaker components



**GZUT 28SQX**  
 SQ 28 mm / 1.1" silk dome tweeter  
 80 WRMS / 130 WMAX  
 Freq. response 2500 – 25000 Hz



**GZUM 55SQ**  
 SQ 55 mm / 2.17" silk dome midrange  
 90 W RMS / 150 W MAX  
 Freq. response 500 – 11000 Hz



**GZUF 60SQ-A**  
 SQ 60 mm / 2.36" full range speaker  
 50 W RMS / 80 W MAX  
 Freq. response 300 – 20000 Hz



**GZUM 80SQ**  
 SQ 80 mm / 3.15" midrange  
 50 W RMS / 80 W MAX  
 Freq. response 200 - 6000 Hz



**GZUX 165.3SQ**  
 SQ 3-way passive crossover (1 pair)



**GZUX 165.2SQ**  
 SQ 2-way passive crossover (1 pair)



**GZUK 165SQ**  
 SQ 165 mm / 6.5" midwoofer  
 120 W RMS / 180 W MAX  
 Freq. response 40 – 3500 Hz



## General information

Each high-performance SQ speaker setup requires an equivalent low frequency extension. GZUW SQ-D2 subwoofers of the URANIUM series match perfectly and offer various options for individually calculated custom enclosures.

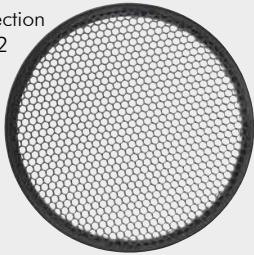
### Common features:

- SQ subwoofers
- Klippel® optimized
- Pressed and coated paper cone
- Audiophile Polycot spider
- U-shape foam surround
- Resonance-free aluminum cast basket
- 50 mm / 2" copper voice coil
- Screw terminals

### Optional accessories:

GZPG 250G

Solid hexagon style protection grill for GZUW 10SQ-D2



## Model specifications

**GZUW 8SQ-D2**  
High-quality SQ subwoofer  
300 W RMS / 2x 2 Ω






**GZUW 10SQ-D2**  
High-quality SQ subwoofer  
450 W RMS / 2x 2 Ω



**GZUW 12SQ-D2**  
High-quality SQ subwoofer  
600 W RMS / 2x 2 Ω





	Model Specifications	General information
	<p><b>GZUB 8BR</b> High-quality SQ vented subwoofer 300 W RMS / 2x 2 Ω 20.5 L / 0.72 cu.ft.</p>	<p>Each high-performance SQ speaker setup requires an equivalent low frequency extension. GZUB BR vented subwoofers of the URANIUM series match perfectly. Elegantly designed, each of the three available enclosures provides the required amount of bass for individual audio setups.</p> <p>Common features:</p> <ul style="list-style-type: none"> <li>◦ High-quality vented SQ subwoofer</li> <li>◦ Solid enclosure made from MDF</li> <li>◦ Airflow-optimized ventilation</li> <li>◦ URANIUM series SQ-D2 driver</li> <li>◦ Resonance-free aluminum cast basket</li> <li>◦ 50 mm / 2" copper voice coil</li> <li>◦ GZ- design push terminal</li> </ul>
	<p><b>GZUB 10BR</b> High-quality SQ vented subwoofer 450 W RMS / 2x 2 Ω 30 L / 1.06 cu.ft.</p>	
	<p><b>GZUB 12BR</b> High-quality SQ vented subwoofer 600 W RMS / 2x 2 Ω 42 L / 1.48 cu.ft.</p>	

**URANIUM Active subwoofers**

	Model specifications	General information
	<p><b>GZUB 800XACTII</b> Flat active subwoofer 20 cm / 8" woofer Triple voice coil 120 W RMS / 180 W max</p>	<p>Fulfilling the customer's desire for lower frequency response and compact bass upgrades, GROUND ZERO offers two aluminum cast active subwoofers. Each of these active under-seat subwoofers comes with a very flat housing, enabling the installer to find a place even at the most limited space.</p> <p>Common features:</p> <ul style="list-style-type: none"> <li>◦ High-quality active flat subwoofer</li> <li>◦ High-power integrated amplifier</li> <li>◦ Solid aluminum cast housing</li> <li>◦ High-level input</li> <li>◦ Automatic turn-on function</li> <li>◦ Low pass filter</li> <li>◦ Phase correction</li> <li>◦ Incl. wired remote control &amp; wiring kit</li> </ul>
	<p><b>GZUB 1000XACTII</b> Flat active subwoofer 25 cm / 10" woofer Triple voice coil 150 W RMS / 210 W max</p>	

Bass remote included





## HYDROGEN SERIES

### High-Grade Technology

Products of the HYDROGEN series match with the demands of highly sophisticated customers. Amazing performance, great sound quality and high SPL whenever required. The subwoofers have been developed to handle a huge amount of input power reaching extremely high bass levels, to be used successfully even under competition conditions. A matching 2-way component speaker system and a number of MINI amplifiers with compact dimensions for limited installation space complete this famous GROUND ZERO line-up.

Model Specifications

General information



**GZHA MINI ONE**  
Compact mono subwoofer amplifier  
1x 220 / 390 / 630 W @ 4 / 2 / 1 Ω  
Link mode 1500 W max @ 2 Ω



**GZHA MINI ONE-K**  
Compact mono subwoofer amplifier  
1x 340/600/1000 W RMS @ 4 / 2 / 1 Ω  
Link mode 2300 W max @ 2 Ω

**GZHA MINI ONE-K 24V**  
24 V power supply



Especially for limited installation space, GROUND ZERO offers the compact sized HYDROGEN MINI full-range class D amplifiers. Meeting all requirements, a 2-channel, a 4-channel and a 5-channel model is available in a small-sized black-anodized heatsink. Two mono amplifiers deliver a bunch of power for subwoofers, while another mono amplifier and a 4-channel version are offered for 24 V applications.

Common features:

- Compact sized amplifiers
- High-efficient class D technology
- SMD components
- Variable active crossover
- Bass boost & phase shift (not GZHA MINI FIVE)
- Stabilized power supply
- Large terminals
- Solid heatsink with engraved GZ lettering
- High-level input with auto-on function (suitable for impedance controlling OEM head units, e.g. latest Volkswagen models)
- Link mode for two amplifiers (MINI ONE / ONE-K)

- Bass remote control included (not for GZHA MINI FOUR)



**GZHA MINI TWO\***  
Compact 2-channel full-range amplifier  
2x 130/230 W RMS @ 4 / 2 Ω  
Bridged mode 1x 550 W max @ 4 Ω  
\*Improved SQ version



**GZHA MINI FOUR\***  
Compact 4-channel full-range amplifier  
4x 80/130 W RMS @ 4 / 2 Ω  
Bridge mode 2x 320 W max @ 4 Ω  
\*Improved SQ version  
Wired remote control available separately

**GZHA MINI FOUR-24V**  
24 V power supply



**GZHA MINI FIVE\***  
Compact 5-channel full-range amplifier  
4x 75/125/- & 1x 190/320/500 W RMS @ 4 / 2 / 1 Ω  
\*Improved SQ version

**\*Improved SQ version**

The SQ upgrade stage contains not only the latest high-level input circuit, but indicates that a number of electronic parts influencing the sound quality have been changed to enhance the overall performance. Each full range amplifier received the SQ upgrade.



## HYDROGEN Loudspeaker system

### General information

Powerful loudspeaker components and systems matching the HYDROGEN series to be combined with amplifiers and subwoofers. Based on the aluminum cast from the URANIUM series, the engineers have now realized a powerful midwoofer. In combination with the brand-new vented silk dome tweeter and a 2-way passive crossover, the new HYDROGEN series GZHC 165.2 2-way system is born.

#### Features

- 2-way loudspeaker system with powerful soundcharacter
- Klippel® optimized 165 mm / 6.5" midwoofer
- Non-pressed paper cone
- GZ-design aluminum cast basket
- Powerful ferrite motor
- Durable rubber surround
- 25 mm / 1" silk dome tweeter
- Flush mount housing and coupled chamber
- Variable 12/6 dB/oct crossover with level adjustment
- GZ- design hexagon style protection grill

### Model Specifications

GZHC 165.2  
2-way component speaker system  
130 W RMS / 220 W MAX  
Freq. response 40 – 24000 Hz



## HYDROGEN Loudspeaker components

### General information

The HYDROGEN series loudspeakers from the 2-way component system are available for individually designed custom full active applications, separately.

### Model Specifications

GZHK 165  
Powerful midwoofer  
120 W RMS / 180 W MAX  
Freq. response 40 – 5000 Hz



GZHT 25S  
25 mm / 1" silk dome tweeter  
70 WRMS / 110 WMAX  
Freq. response 2200 – 24000 Hz



## HYDROGEN FLAT Subwoofer

### General information

The brand-new HYDROGEN series GZHW 10SPL-D2 FLAT subwoofer solves the problem of cramped installation space requiring a shallow enclosure for the subwoofer. Equipped with a powerful motor and a huge voice coil known from the existing subwoofers of the HYDRGEN SPL series, this model handles power input of up to 1000 Watts SPL.

#### Features

- High-power SPL subwoofer
- Shallow installation depth
- Klippel® optimized
- Efficient ferrite magnet
- Durable U-shape rubber surround
- Massive aluminum cast basket
- Paper sandwich cone
- 4-layer copper voice coil
- Chrome-plated push terminal

### Model Specifications

GZHW 10SPL-D2 FLAT  
High-power flat SPL subwoofer  
600 WRMS / 1000 WSPL / 2 x 2 Ω  
63 mm / 2.5" copper voice coil





## Model specifications

## General information

GZHW 16SPL  
High-power SPL subwoofer  
1000 W SPL / 2x 2 Ω  
50 mm / 2" voice coil

● Also available in green color

GZHW 20XSPL-D1  
High-power SPL subwoofer  
1500 W SPL / 2x 1 Ω

GZHW 20XSPL-D2  
High-power SPL subwoofer  
1500 W SPL / 2x 2 Ω

GZHW 25XSPL-D1  
High-power SPL subwoofer  
2500 W SPL / 2x 1 Ω

GZHW 25XSPL-D2  
High-power SPL subwoofer  
2500 W SPL / 2x 2 Ω

GZHW 30XSPL-D1  
High-power SPL subwoofer  
3000 W SPL / 2x 1 Ω

GZHW 30XSPL-D2  
High-power SPL subwoofer  
3000 W SPL / 2x 2 Ω

GZHW 38XSPL-D1  
High-power SPL subwoofer  
3500 W SPL / 2x 1 Ω

GZHW 38XSPL-D2  
High-power SPL subwoofer  
3500 W SPL / 2x 2 Ω

The HYDROGEN SPL subwoofer line-up contains a great variety of models in many different sizes for various demands. Massive aluminum cast baskets and a lot of further technologies enhance the reachable SPL level. Apart from the smallest member of the family, each model is available in D1 or D2 voice coil version for a more flexible amplifier setup.

Common features:

- High-power SPL subwoofer
- Fiber-reinforced paper cone
- High excursion foam surround
- High-temperature copper voice coils
- Progressive 2-layer spider
- GZ- design aluminum cast basket
- Powerful street bass and SPL performance





## RADIOACTIVE SERIES

### Advanced Dynamics

The RADIOACTIVE series offers a wide range of exceptional high-efficient loudspeakers and subwoofers for daily use but ready for SQ and SPL competition, as well. During the development GROUND ZERO focused especially on natural and dynamical audio reproduction of digitally compressed music. Two powerful class D amplifiers are matching power suppliers for each kind of custom application. Recently, the line has been expanded by some compact but though high-power capable ready-to-play vented subwoofer enclosures.

Model specifications

**GZRA 2HD**  
 Powerful 2-channel class D amplifier  
 2x 285 / 450 W RMS @ 4 / 2 Ω  
 Bridge mode 1x 900 W RMS @ 4 Ω  
 Wired remote control available separately



GZTA Bassremote  
 Optional remote control for GZRA 2HD

**GZRA 4HD**  
 Powerful 4-channel class D amplifier  
 4x 175 / 275 W RMS @ 4 / 2 Ω  
 Bridge mode 2x 550 W RMS @ 4 Ω



General information

The RADIOACTIVE series Class D amplifiers deliver astonishing power at high SQ level and an extraordinary frequency range for high-resolution music reproduction.

Common features:

- High-efficient Class D amplifiers
- High-level input with auto-on function
- Wide-band low pass filter
- Wide-band high pass filter
- Variable bass boost
- Ready for Start/Stop vehicles
- Solid black-anodized aluminum heatsink
- Multiple protection circuit





## General information

The RADIOACTIVE SQ speaker systems have been developed for highly demanding listeners. Containing coated silk dome tweeters and high-grade passive crossovers with various options, the passive sets are available as a 2- or 3-way package.

### Common features:

- High-dynamic SQ loudspeaker
- Black-anodized aluminum cone
- Klippel® optimized ferrite motor
- Coated silk dome tweeter
- 12 dB/oct high-grade crossover
- 6/12 dB/oct crossover (IV version)
- High-efficient 3-ohm impedance
- Linearizing copper cap
- Hexagon style protection grill
- Detailed and natural music reproduction



**GZTH 25-28B**

Optional tweeter housing for GZRT 25SQ

## Model specifications

### GZRC 165.2SQ

High-dynamic 2-way component speaker system  
120 W RMS / 190 W max



### GZRC 165.2SQ-ACT

High-dynamic 2-way set for active applications  
Components:  
GZRK 165SQ  
GZRT 25SQ

### GZRC 165.3SQ

High-dynamic 3-way component speaker system  
160 W RMS / 250 W max



### GZRC 165.3SQ-ACT

High-dynamic 3-way set for active applications  
Components:  
GZRK 165SQ  
GZRM 80SQ  
GZRT 25SQ

### GZRC 165.2SQ-IV

High-dynamic 2-way component speaker system  
Installer version  
120 W RMS / 190 W max  
Tweeter housing included



## RADIOACTIVE Loudspeaker components



### GZRT 25SQ

SQ silk dome tweeter  
70 W RMS / 110 W max  
Freq. response 3 – 25 kHz



### GZRM 80SQ

SQ midrange  
50 W RMS / 80 W max  
Freq. response 140 – 4000 Hz



### GZRK 165SQ

High-dynamic midwoofer  
110 W RMS / 160 W max  
Freq. response 35 – 4000 Hz

## Model specifications

**GZRF 4.0SQ**  
High-dynamic 2-way coaxial loudspeaker  
70 W RMS / 110 W max  
Freq. response 70 – 24000 Hz



**GZRF 5.2SQ**  
High-dynamic 2-way coaxial loudspeaker  
80 W RMS / 120 W max  
Freq. response 60 – 24000 Hz



**GZRF 6.5Q**  
High-dynamic 2-way coaxial loudspeaker  
100 W RMS / 140 W max  
Freq. response 50 – 24000 Hz



**GZRF 69SQ**  
High-dynamic 3-way coaxial loudspeaker  
130 W RMS / 200 W max  
Freq. response 40 – 24000 Hz



## General information

The new RADIOACTIVE SQ coaxial speakers satisfy the request for dynamical and high-efficient audio reproduction. Black anodized aluminum cones used for the mid woofers in combination with a new coated silk dome tweeter deliver an amazing sound performance.

### Common features:

- High-dynamic coaxial loudspeakers
- Black-anodized aluminum cone
- Rubber surround
- Resonance-free steel basket
- High-efficient 3-ohm impedance
- 25 mm / 1" silk dome tweeter (not GZRF 69SQ)
- Mylar midrange and tweeter (GZRF 69SQ)
- Tweeter and overload protection
- Hexagon style protection grill
- Detailed and natural music reproduction



## RADIOACTIVE Subwoofers

## Model specifications

**GZRW 25-D2**  
High-quality subwoofer  
600 W RMS  
2x 2 Ω

**GZRW 30-D2**  
High-quality subwoofer  
800 W RMS  
2x 2 Ω

**GZRW 38-D2**  
High-quality subwoofer  
1000 W RMS  
2x 2 Ω

## General information

Using most of the particular features previously developed for the SPL subwoofers, the street versions have been equipped with a large, long-stroke surround and a particular spider to reduce the resonance frequency for daily music listening.

### Common features:

- Powerful low bass subwoofer
- Fiber-reinforced paper cone
- Multilayer foam U-Shape surround
- High-temperature copper voice coil
- High-excursion single layer spider
- Optimal for daily use



## General information

RADIOACTIVE SPL subwoofers include some particular technologies for SPL use at a very reasonable price. The right choice for dedicated SPL competition rookies. The line contains three ready-to-play enclosure subwoofers.

### Common features:

- High-power SPL subwoofer
- Fiber-reinforced paper cone
- Multilayer foam U-Shape SPL surround
- High-temperature voice coils
- Progressive double layer spider
- Ultimate choice for SPL-Rookies

## Model specifications

**GZRW 6XSPL**  
High-quality SPL subwoofer  
350 W RMS / 700 W SPL  
2x 2 Ω



**GZRW 8XSPL**  
High-quality SPL subwoofer  
500 W RMS / 1000 W SPL  
2x 2 Ω



**GZRW 10XSPL**  
High-quality SPL subwoofer  
800 W RMS / 1200 W SPL  
2x 2 Ω



**GZRW 12XSPL**  
High-quality SPL subwoofer  
1000 W RMS / 1500 W SPL  
2x 2 Ω



**GZRW 15XSPL**  
High-quality SPL subwoofer  
1200 W RMS / 1800 W SPL  
2x 2 Ω





Model specifications

General information



**GZRB 16SPL**  
 Space-saving vented SPL subwoofer  
 350 W RMS / 700 W SPL  
 2x 2 Ω



**GZRB 20SPL**  
 Space-saving vented SPL subwoofer  
 500 W RMS / 1000 W SPL  
 2x 2 Ω

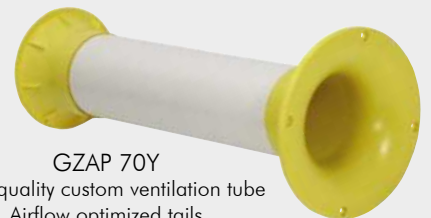


**GZRB 25SPL**  
 Space-saving vented SPL subwoofer  
 500 W RMS / 1000 W SPL  
 2x 2 Ω



**GZRB 30SPL**  
 High-quality vented SPL subwoofer  
 700 W RMS / 1350 W SPL  
 2x 2 Ω

RADIOACTIVE SPL subwoofers include some particular technologies for SPL use delivering a lot of low frequency output from rather compact boxes. The right choice for everyday listening and dedicated SPL competition rookies. The line contains four ready-to-play vented enclosure subwoofers.



**GZAP 70Y**  
 High-quality custom ventilation tube  
 Airflow optimized tails  
 71 mm / 2.80" diameter  
 381 mm / 15.00" length



**GZST 4S**  
 4-pin push terminal



## TITANIUM SERIES

### Premium Quality

The products of the GROUND ZERO TITANIUM series combine premium quality and high- efficiency. A wide range of dedicated loudspeakers, coaxials and component systems meet most of individual needs. TITANIUM series amplifiers are equipped with sophisticated technology and encased by a posh heatsink with brushed black aluminum color surface.

Flat subwoofers and an active under-seat model complete the current line-up.

Model specifications

GZTA 2255X-B  
 Powerful 2-channel class AB amplifier  
 2x 150/250 W RMS @ 4 / 2 Ω  
 Bridge mode 1x 600 W max @ 4 Ω



GZTA 4125X-B  
 Powerful 4-channel class AB amplifier  
 4x 90/130 W RMS @ 4 / 2 Ω  
 Bridge mode 2x 320 W max @ 4 Ω



GZTA 4230X-B  
 Powerful 4-channel class AB amplifier  
 4x 140/230 W RMS @ 4 / 2 Ω  
 Bridge mode 2x 550 W max @ 4 Ω



General information

The products of the TITANIUM line combine premium quality and high efficiency. A wide range of dedicated speakers meet most of the customer's need. The amplifiers are equipped with sophisticated technology and encased by a posh heatsink with brushed black aluminum surface. For an individual design, both black and yellow color side panels are included for each model.

Common features:

- High-power amplifier
- Stabilized power supply
- Variable active crossover
- Subsonic filter
- Bass Boost
- Black-anodized aluminum heatsink
- High-gloss acrylic inlay
- 2 pairs of side panels included (yellow and black color)

GZTA Bassremote  
 Optional remote control



# TITANIUM Loudspeaker systems

## General information

The TITANIUM series contains a wide range of component loudspeaker systems with yellow color 3D-HQPP cone. Each 2-way component system includes the 20 mm / 0.79" soft dome tweeter and installer-friendly crossovers.

Common features:

- High-efficient component loudspeaker system
- 3D-HQPP cone
- Rubber surround
- Resonance-free steel basket
- High-efficient 3-ohm impedance
- Soft dome tweeter
- Hexagon style protection grill

## Model specifications

### GZTC 130.2X

High-quality 2-way component system  
80 W RMS / 130 W max  
Freq. response 60 – 22000 Hz  
Compact 12 dB/oct high pass filter  
In-line low pass filter



### GZTC 165.2X

High-quality 2-way component system  
100 W RMS / 150 W max  
Freq. response 50 – 22000 Hz  
Compact 12 dB/oct high pass filter  
In-line low pass filter



### GZTC 165.3X-II

High-quality 3-way component system  
120 W RMS / 180 W max  
Freq. response 50 – 22000 Hz  
12 dB/oct crossover



### GZTC 165.3X-ACT

High-quality 3-way set for active applications  
Components:  
19 mm / 0.75" soft dome tweeter  
GZTM 100NEO  
GZTK 165



## TITANIUM Loudspeaker components



### GZTT 20S

High-quality 20 mm / 0.79" soft dome tweeter  
40 W RMS / 70 W max  
Freq. response 3 - 22 kHz



### GZTM 100NEO

High-quality neodymium midrange  
40 W RMS / 60 W max  
Freq. response 250 - 7000 Hz



### GZTK 165

High-quality midwoofer  
80 W RMS / 100 W max  
Freq. response 50 - 4000 Hz



## Model specifications



**GZTF 4.0X**  
High-quality 2-way coaxial speaker  
70 W RMS / 100 W max  
Freq. response 70 - 22000 Hz

**GZTF 5.2X**  
High-quality 2-way coaxial speaker  
80 W RMS / 110 W max  
Freq. response 60 - 22000 Hz

**GZTF 6.5X**  
High-quality 2-way coaxial speaker  
90 W RMS / 130 W max  
Freq. response 50 - 22000 Hz

**GZTF 69X**  
High-quality 3-way coaxial speaker  
130 W RMS / 190 W max  
Freq. response 40 - 22000 Hz

## General information

High-efficiency coaxial loudspeakers of the TITANIUM series offer a great value sound upgrade for OEM or aftermarket head units with the significant yellow 3D-HQPP cone.

Common features:

- High-efficient coaxial loudspeaker
- 3D-HQPP cone
- Rubber surround
- Resonance-free steel basket
- High-efficient 3-ohm impedance
- 13 mm / 0.51" Mylar tweeter
- 55 mm / 2.2" Mylar midrange (GZTF 69X)
- Hexagon style protection grill



## TITANIUM Flat subwoofers

## Model specifications

**GZTW 10F\***  
High-quality flat subwoofer  
300 W RMS / 2x 2 Ω

**\*Improved Q Version**

Developed for high SQ in small, sealed enclosures

**GZTW 12F**  
High-quality flat subwoofer  
350 W RMS / 2x 2 Ω



## General information

When space is limited, special solutions are required. That's why GROUND ZERO's offers two particularly flat subwoofers in the TITANIUM series.

Common features:

- Extremely flat IMPP cone
- Resonance-free steel basket
- Aluminum dustcap
- Push terminal

## TITANIUM Active subwoofer

## Model specifications



**GZTB 20ACT**  
Flat active subwoofer  
20 cm / 8" woofer  
100 W RMS / 160 W max  
Plastic injection enclosure

## General information

Fulfilling the customer's desire for lower frequency response and compact bass upgrades, GROUND ZERO offers an affordable active subwoofer in the TITANIUM series with a strong plastic-injection housing.

This under-seat subwoofer comes with a flat housing, enabling the installer to find a place even at the most limited space.



Bass remote included



## IRIDIUM SERIES

Top Performance @ Entry Level

Representing the entry line of GROUND ZERO the IRIDIUM series offers a lot of useful features and good performance for most applications. The range contains a variety of affordable amplifiers, loudspeakers and subwoofers for daily use as well as for SPL purpose.

The Subwoofers are available for individually designed enclosures or as ready-to-play vented boxes.

Model specifications

General information



**GZIA 1.2000D**  
 High-quality mono class D amplifier  
 1x 750 / 1300 / 1800 W RMS @ 4 / 2 / 1 Ω  
 1x 2000 W max @ 1 Ω  
 Incl. wired bass remote control

The range of amplifiers contains a variety of affordable models for the daily use and for SPL purpose. The feature list includes the most important functions like high-level input with auto turn-on or a remote control for the low-impedance stable mono amplifiers.

- Common features:
- 4 Ω / 2 Ω stable in stereo mode
  - 1 Ω stable (mono amplifiers)
  - Status indicator
  - Bass Boost (mono amplifiers)
  - Variable active crossover
  - High-level input with auto-on function
  - Adjustable input sensitivity
  - Soft-delayed remote turn-on
  - Thermal / Short / Overload protection



**GZIA 1.1500D**  
 High-quality mono class D amplifier  
 1x 425 / 775 / 1300 W RMS @ 4 / 2 / 1 Ω  
 1x 1500 W max @ 1 Ω  
 Incl. wired bass remote control



**GZIA 1.1150D**  
 High-quality mono class D amplifier  
 1x 370 / 665 / 1050 W RMS @ 4 / 2 / 1 Ω  
 1x 1150 W max @ 1 Ω  
 Incl. wired bass remote control



**GZIA 1.700**  
 High-quality mono full range class A/B amplifier  
 1x 230 / 400 / 630 W RMS @ 4 / 2 / 1 Ω  
 1x 700 W max @ 1 Ω  
 Incl. wired bass remote control



**GZIA 2.240**  
 High-quality class A/B amplifier  
 2x 150 / 240 W RMS @ 4 / 2 Ω  
 Bridged mode 1x 550 W max @ 4 Ω  
 Wired remote control available separately



**GZIA 2.135**  
 High-quality class A/B amplifier  
 2x 85 / 135 W RMS @ 4 / 2 Ω  
 Bridged mode 1x 300 W max @ 4 Ω  
 Wired remote control available separately



**GZIA 2.85**  
 High-quality class A/B amplifier  
 2x 60 / 85 W RMS @ 4 / 2 Ω  
 Bridged mode 1x 200 W max @ 4 Ω



**GZIA 4.120**  
 High-quality class A/B amplifier  
 4x 70 / 120 W RMS @ 4 / 2 Ω  
 Bridged mode 2x 275 W max @ 4 Ω



GZTA Bassremote  
 Optional remote control

## IRIDIUM Loudspeaker systems

The latest IRIDIUM series component loudspeakers feature a GZ-design basket with improved ventilation and higher stability, increased spider diameter and a particularly shaped HQPP cone with 3-D honeycomb structure. With the revised 19 mm / 0.75" tweeter and a 12 dB/oct high pass filter these new generation component systems are the best sounding IRIDIUM series loudspeakers, ever!

### Common features:

- High-quality 2-way component loudspeaker system
- Klippel® optimized
- HQPP cone with 3D structure
- Durable rubber surround
- Resonance free steel basket
- 19 mm / 0.75" Mylar dome tweeter
- 12 dB/oct high-pass filter with level adjustment
- Hexagon style protection grill



**GZIC 130.2**  
90 W RMS / 140 W max  
Freq. response 60-20000 Hz



**GZIC 165.2**  
100 W RMS / 150 W max  
Freq. response 50-20000 Hz

## IRIDIUM SPL System and loudspeaker

Expanding the line-up for the fans of SPL levels, GZ engineers created a high-power capable component speaker system including a high-roll midwoofer and combined it with the GZCT 25M(-SPL) tweeter. The SPL midwoofer is available separately, as well.

### Features:

- High-power 2-way SPL component loudspeaker system
- Klippel® optimized
- HQPP cone with 3D-structure
- Durable rubber surround
- Resonance free steel basket
- 25 mm / 1" Mylar SPL tweeter w. flush mount housing
- 12 dB/oct high-pass filter with level adjustment
- Hexagon style protection grill



**GZIC 165.2SPL**  
120 W RMS / 200 W SPL  
Freq. response 45-20000 Hz



**GZIC 165SPL**  
High-power SPL midwoofer  
80 W RMS / 120 W SPL / 3 Ω

## IRIDIUM Coaxial loudspeakers

### Common features:

- High-quality coaxial loudspeakers
- HQPP cone with 3D-honeycomb structure
- Wide frequency response
- 13 mm / 0.51" Mylar tweeter
- 50 mm / 2" Mylar midrange (GZIF 69)



**GZIF 4.0**  
2-way coaxial loudspeaker  
60 W RMS / 100 W max



**GZIF 5.2**  
2-way coaxial loudspeaker  
70 W RMS / 110 W max



**GZIF 6.5**  
2-way coaxial loudspeaker  
80 W RMS / 120 W max



**GZIF 69**  
3-way coaxial loudspeaker  
120 W RMS / 180 W max

## IRIDIUM Flat loudspeakers and systems

### Common features:

- High-quality flat loudspeakers
- Coated paper cone
- Wide frequency response
- 13 mm / 0.51" Mylar tweeter (coax)
- 19 mm / 0.75" Soft dome tweeter (compo)



**GZIF 4001FX**  
2-way flat coaxial  
50 / 90 W RMS / max



**GZIF 5201FX**  
2-way flat coaxial  
60 / 100 W RMS / max



**GZIF 6501FX**  
2-way flat coaxial  
70 / 110 W RMS / max



**GZIC 400FX**  
2-way flat compo  
60 / 100 W RMS / max



**GZIC 650FX**  
2-way flat compo  
100 / 140 W RMS / max

Model specifications

General information



GZIW 10XSPL-D2  
High-power SPL subwoofer  
700 W SPL / 2x 2 Ω



GZIW 12XSPL-D2  
High-power SPL subwoofer  
1000 W SPL / 2x 2 Ω



Available in yellow or pink color

The IRIDIUM series contains a new 25 cm / 10" and a 30 cm / 12" SPL model with 3D-structured pressed paper cone and stitched surround. The larger version is available as pink color edition, as well to fit individual applications.



IRIDIUM Street Subwoofers

Model specifications

General information



GZIW 165  
High-quality subwoofer  
100 W RMS / 4 Ω



GZIW 200  
High-quality subwoofer  
150 W RMS / 4 Ω



GZIW 250  
High-quality subwoofer  
250 W RMS / 4 Ω



GZIW 300  
High-quality subwoofer  
350 W RMS / 4 Ω

The IRIDIUM street subwoofers with single 4 Ω voice coil, long stroke rubber surround and a new HQPP cone with 3D-honeycomb structure are perfect for daily use.

- Common features:
- HQPP cone with 3D-honeycomb structure
  - U-shape rubber surround
  - High-power copper voice coil
  - Audiophile PC spider
  - Push terminal
  - Woven-in lead wires
  - Resonance-free steel basket
  - 3D dust cap logo
  - Rubber gasket



## General information

A subwoofer can cover all demands on low frequency reproduction in a suitable housing. The IRIDIUM series offers a wide selection of passive models as well as some active versions.

### Common features:

- Solid enclosure from MDF wood
- Logo embroidery
- Flow-optimized bass tunnel (ventilation)
- GZ-design push terminal
- Stable HQPP cone with 3D-honeycomb structure
- Rubber surround
- High-power copper voice coil
- Audiophile PC spider
- Woven-in lead wires
- Resonance-free steel basket
- 3D dustcap logo
- Plastic injection gasket with logo

ACT Version  
with integrated amplifier



## Quick-release power connector

### Common features ACT models:

- Powerful active subwoofer
- Class A/B MOSFET amplifier
- Adjustable bass boost
- Phase shift (phase switch)
- Low pass filter (30 - 120 Hz)
- High-level input with auto-on function
- Quick-release power connector
- Remote control connector\*

\*Wired remote control available separately



GZTA Bassremote  
Optional remote control for ACT models

## Model specifications

**GZIB 20BR**  
High-quality vented subwoofer enclosure  
150 W RMS / 4 Ω



**GZIB 20BR-ACT**  
High-quality vented active subwoofer enclosure  
120 W RMS / 220 W max



**GZIB 25BR**  
High-quality vented subwoofer enclosure  
250 W RMS / 4 Ω

**GZIB 25BR-ACT**  
High-quality vented active subwoofer enclosure  
150 W RMS / 270 W max



**GZIB 30BR**  
High-quality vented subwoofer enclosure  
350 W RMS / 4 Ω

**GZIB 30BR-ACT**  
High-quality vented active subwoofer enclosure  
180 W RMS / 300 W max



**GZIB 2.30BR**  
High-quality vented subwoofer enclosure  
700 W RMS / 2x 2 Ω

Model specifications

General information



**GZIB 12SPL**  
High-quality vented SPL subwoofer enclosure  
500 W RMS / 1000 W SPL  
2x 2 Ω



**GZIB 2.12SPL**  
High-quality vented SPL subwoofer enclosure  
1000 W RMS / 2000 W SPL  
4x 2 Ω

Satisfying the demand for high-level sound pressure, GROUND ZERO offers a single and a double 30 cm / 12" SPL subwoofer enclosure.

Common features:

- Solid enclosure from MDF wood
- Logo embroidery
- Flow-optimized bass tunnel (ventilation)
- GZ-design push terminal
- High-power SPL subwoofer
- Klippel® optimized
- 3D-structured pressed paper cone
- 63 mm / 2.5" copper round wire voice coil
- High-roll sandwich surround
- Progressive 2-layer spider
- Speaker protection bars



GZST 4S  
4-pin push terminal

IRIDIUM Bass Kit

Model Specifications

Features



**GZ BASS KIT 12.300X-II**  
Powerful 30 cm / 12" bass kit  
Mono class A/B amplifier

Also available including wiring kit  
(GZ BASS KIT 12.300X-II incl. Cable)



- Powerful 30 cm / 12" bass kit
- Loaded subwoofer enclosure
- 40 Liter / 1.41 ft<sup>3</sup>
- GZ-design push terminal
- Airflow-optimized ventilation port
- Mono class A/B amplifier
- Output power 300 Watts max
- Bass boost control
- Variable low pass filter
- High-level input with auto-on function

Optional wiring kit GZPK 10XLC-II

- 10 mm<sup>2</sup> / 7 AWG power kit
- Twisted RCA cable
- 1.5 m / 4.92 ft 2.5 mm<sup>2</sup> / 13 AWG speaker cable
- Mini ANL fuseholder incl. 60 A fuse
- Remote cable



GZST 2S  
2-pin push terminal



## COMPETITION SERIES

### Realistic Stage Atmosphere

Experiencing real concert atmosphere or club feeling requires professional high SPL levels to be achieved. In consequence, particular and powerful loudspeakers and power amplifiers need to be used. GROUND ZERO's development department doesn't make any compromise whenever the purpose of a product is defined that clear. As a result, each COMPETITION series member will be the right choice for demanding applications expecting very high SPL level audio reproduction with high sound quality.



## COMPETITION PRO SERIES

### The benchmark for high-SPL audio

The COMPETITION PRO line marks the very top level of electrically and mechanically possible power handling within the GROUND ZERO line-up. Meanwhile, the red basket drivers have become well-known and famous for their performance at open show and motorbike applications at very high SPL and SQ level.

Model specifications

General information



GZCA 1500.M1  
Mono competition SPL amplifier  
1x 1350 W RMS / 1500 W max @ 1 Ω



GZCA 1500.M2 (coming soon)  
1x 1350 W RMS / 1500 W max @ 2 Ω



GZCA 3000.M1  
Mono competition SPL amplifier  
1x 2600 W RMS / 3000 W max @ 1 Ω



GZCA 3000.M2 (coming soon)  
1x 2600 W RMS / 3000 W max @ 2 Ω



GZCA 5000.M1 (coming soon)  
Specifications to be announced later

GROUND ZERO 's class D high-power amplifiers have become a benchmark delivering a huge amount of output power for any kind of open show or SPL application. The latest generation starts with the launch of some models covering the essential demand of subwoofers at rated 1500 up to 5000 Watts.

## COMPETITION PRO Full range coaxial loudspeakers

### General information

Combining a high-power capable compression tweeter with an amazing midrange results in these new red basket coaxial loudspeakers. Both models are designed for full-active setups by using a DSP or an active crossover delivering huge SPL levels.

### Model specifications

#### GZCF 165NEO-PRO

High-power 2-way SPL coaxial speaker for active applications with 25 mm / 1" compression tweeter  
150 + 50 W RMS / 300 + 100 W max  
Freq. response 150 – 20 kHz  
Neodymium magnet

#### GZCF 200NEO-PRO (w/o picture)

High-power 2-way SPL coaxial speaker for active applications with 25 mm / 1" compression tweeter  
250 + 50 W RMS / 400 + 100 W max  
Freq. response 130 Hz – 20 kHz  
Neodymium magnet



## COMPETITION PRO Midrange loudspeakers

### General information

These red basket drivers have set benchmarks for SPL performance. A high-efficient neodymium motor and the extraordinary power handling leads to perfectly kicking midrange performance in every kind of open show or motorbike setup. Pure Rock'n'Roll for your ears!

### Model specifications

#### GZCM 6.5N-PRO

High end 165 mm / 6.5" midrange  
200 W RMS / 400 W max  
150 – 12000 Hz / SPL 96 dB  
Neodymium magnet

#### GZCM 8.0N-PRO

High end 200 mm / 8" midrange  
300 W RMS / 500 W max  
130 – 10000 Hz / SPL 98 dB  
Neodymium magnet



## COMPETITION PRO Tweeters

### General information

The COMPETITION PRO series marks the very top level of electrically and mechanically possible power handling, nowadays. The tweeters have been designed especially for long distance open show and demonstration performances at very high SPL levels, if required.

### Model specifications

#### GZCT 19N-PROX B / S

High-end compression tweeter  
30 W RMS / 100 W max  
3 – 22 kHz / SPL 109 dB

Available in black or silver finish



## COMPETITION SQL Tweeter

### General information

While the main the purpose of a compression tweeter is delivering a lot of SPL at high frequencies, this particular tweeter handles a huge amount of input power and thus, combines SQ music reproduction with high SPL level. That's called SQL.

### Model specifications

#### GZCT 25SQL

25 mm / 1" horn SQ tweeter  
100 W RMS / 150 W max  
3 – 22 kHz / SPL 93 dB





Model specifications

General information

GZCC 165.2SQL  
High-power 2-way SQL speaker system  
160 W RMS / 300 W max  
Freq. response 50 – 22000 Hz

For high-power and high-output applications, GROUND ZERO offers a 165 mm / 6.5" and a 200 mm / 8" 2-way component loudspeaker system. Including variable crossovers these systems offer an option to expand the set by another pair of midwoofers for even more fun (SPL).



Common features:

- High-power component loudspeaker system
- High-power variable crossover
- Double-woofer expanding option
- Hexagon style protection grill
- 25 mm / 1" SQL silk dome tweeter (GZCT 25SQL)

GZCC 200.2SQL  
High-power 2-way SQL speaker system  
200 W RMS / 380 W max  
Freq. response 50 – 22000 Hz



GZCX 165-200.2SQL  
2-way high-power competition crossover  
also available separately

COMPETITION Mid- / Subwoofer

Model specifications

General information

GZCK 165XSPL  
High-power SPL  
midwoofer  
100 W RMS / 250 W max  
50 – 10000 Hz / SPL 93 dB

GZCK 200XSPL  
High-power SPL  
midwoofer  
150 W RMS / 300 W max  
50 – 6000 Hz / SPL 93 dB

GZCK 250XSPL  
High-power SPL  
mid- / subwoofer  
200 W RMS / 400 W max  
40 – 6000 Hz / SPL 94 dB

While pure midrange drivers of the COMPETITION series require adequate low frequency support, the midwoofers offer a wider low frequency response.



GZCK 250XSPL-GRILL  
Hexagon style protection grill available separately

## COMPETITION NEO Coaxial loudspeaker

### General information

Apart from loudspeaker components, the COMETITION series includes some fullrange loudspeakers and unique models for SPL applications with very good performance. The latest member of this family has been equipped with a high-efficient and installation-friendly neodymium motor and a 28 mm / 1.1" high-power tweeter.

### Model specifications

**GZCF 6.5SPL-NEO**  
High-power 2-way SPL coaxial speaker  
with flat neodymium motor and 28 mm / 1.1" tweeter  
100 W RMS / 250 W max  
Freq. response 50 Hz – 20 kHz  
Reduced installation depth



## COMPETITION Full range coaxial loudspeakers

### General information

Coaxial loudspeakers have a major acoustical advantage compared to multi-way component speaker systems. There is hardly any phase deviation of the reproduced music signal between the midrange driver and the tweeter. The speakers can be used in active or passive setups.

### Model specifications

**GZCF 6.5SPL**  
High-power 2-way SPL coaxial speaker  
100 W RMS / 250 W max  
Freq. response 50 – 20000 Hz



**GZCF 8.0SPL**  
High-power 2-way SPL coaxial speaker  
150 W RMS / 300 W max  
Freq. response 40 – 20000 Hz



**GZCF 69SPL**  
High-power 2-way SPL coaxial speaker  
150 W RMS / 300 W max  
Freq. response 50 – 20000 Hz



**GZCF 7104XSPL**  
High-power 4-way SPL coaxial speaker  
200 W RMS / 300 W max  
Freq. response 35 – 25000 Hz

Hexagon style protection grill included




Model specifications		General information
<p>GZCM 6.5NEO-DC High-efficient SPL midrange 120 W RMS / 320 W max 240 – 12000 Hz / SPL 98 dB</p> 	<p>GZCM 8.0NEO-DC High-efficient SPL midrange 180 W RMS / 420 W max 160 – 7000 Hz / SPL 100 dB</p> 	<p>Using neodymium for the motor of a loudspeaker, increases the efficiency drastically. As a result, the COMPETITION series midrange drivers offer amazing high SPL levels at still reasonable power input. The black steel baskets used for these models combined with the flat neodymium motor reduce the required installation space and thus, fit most OEM-designed mounting positions.</p>

## COMPETITION Midrange loudspeakers

Model specifications			General information
<p>GZCM 6.5SPL High-power SPL midrange 100 W RMS / 300 W max 220 – 10000 Hz / SPL 94 dB</p> 	<p>GZCM 8.0SPL High-power SPL midrange 150 W RMS / 400 W max 170 – 10000 Hz / SPL 95 dB</p> 	<p>GZCM 10.0SPL High-power SPL midrange 200 W RMS / 500 W max 100 – 10000 Hz / SPL 96 dB</p> 	<p>A particular customer high-power setup requires midrange speakers capable of handling a huge amount of input power. The line of COMPETITION midrange drivers contains one matching model for each demand.</p>

## COMPETITION SPL Woofer

Model specifications	General information
<p>GZCW 12-75SPL High-power SPL woofer 400 W RMS / 800 W max 40 – 3000 Hz / SPL 96 dB 75 mm / 3" voice coil</p> 	<p>GROUND ZERO offers a unique COMPETITION series 30 cm / 12" woofer. This model completes an individual custom setup with high SPL drivers.</p>

## General information

The line-up of COMPETITION series tweeters includes various models for any kind of custom application. Some models are specially designed for motorbike use while others will cover the needs of open-show installations.

## Model specifications

**GZCT 25M-SPL**  
 High-quality dome tweeter  
 Installation-friendly dimensions  
 70 W RMS / 100 W max  
 Incl. 12 dB/oct. in-line high pass filter



**GZCT 0500X**  
 High power compression tweeter  
 30 W RMS / 100 W max  
 4 – 25 kHz / SPL 102 dB



**GZCT 500IV-B**  
 High-power compression tweeter  
 30 W RMS / 100 W max  
 4 – 25 kHz / SPL 102 dB



**GZCT 3500X-B / S**  
 High power compression tweeter  
 30 W RMS / 100 W max  
 3 – 25 kHz / SPL 99 dB

Available in black or silver finish



**GZCT 3000X**  
 High-power compression tweeter  
 40 W RMS / 120 W max  
 4 – 25 kHz / SPL 105 dB



**GZCT 4000X**  
 High power compression tweeter  
 50 W RMS / 140 W max  
 2.5 – 20 kHz / SPL 103 dB



**GZCT 5000SPL / -B**  
 High power compression tweeter  
 70 W RMS / 180 W max  
 2.5 – 20 kHz / SPL 108 dB  
 Available in yellow or black finish



**GZ PROTECT**  
 High quality speaker protection  
 Powerhandling 150 W / min. impedance load 2 Ω



Model specifications

GZRM 165X  
 Water-resistant 2-way coaxial speaker  
 70 W RMS / 120 W MAX  
 Freq. response 60 – 25000 Hz



General information

Since listening to favorite music isn't limited to cars, GROUND ZERO offers a particular speaker for environments with special requirements to the construction and water resistance.

The MARINE series coaxial speaker is available in white finish, suitable for places with high humidity such as bathrooms and pool areas or even for off-shore applications with occasionally appearing direct splashing water such as on outer decks or on leisure boats.

Features:

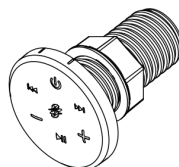
- 2-way marine coaxial loudspeaker
- IMPP cone
- Rubber surround
- Rainwater and splash protected
- Salt water resistant
- 13 mm / 0.51" PEI tweeter
- White frame and protection grill



MARINE Music streaming

Model specifications

GZWR 10M  
 Wireless music streaming receiver  
 Main level control  
 RCA output (1- pair / max 3 V)  
 Remote input / output (12 V / 300 mA)  
 AUX input



General information

Universal wireless music streaming receiver with water-resistant chromed bezel and touch screen display.

Features:

- Wireless music streaming receiver
- LED illumination
- AUX input 3.5 mm jack
- RCA output (1 pair / max. 3 V)
- Remote input/output
- Mobile device player control
- Main level control
- Operation voltage 9-16 Volt





## DSP SERIES

### Digital Sound Processing

In general, the in-car environment offers adverse conditions and installation positions for speakers.

However, inaccurate audio reproduction can be corrected by using digital technologies.

For this purpose, the DSP series contains some multi-channel units with a variety of connection options for upgrading OEM or aftermarket systems. The adjustment of the DSP can be done in real time using the included PC software or an APP.



# DSP PRO Amplifier

## General information

The GZDSP 4.80A-PRO is a powerful and high efficient 4-channel amplifier offering the features of an 8-channel DSP.

### Features:

- 8-channel digital signal processor
- 6-channel high-level input
- 6-channel RCA input
- Realtime setting via PC software
- 32-bit Cirrus Logic processor
- Windows GUI software
- 31-band equalizer for each channel
- Time delay correction
- Variable crossover
- Phase correction
- Automatic turn-on function (high-level input)
- Optical and coaxial digital input
- 4x RCA output

## Model specifications

**GZDSP 4.80A-PRO**  
4-channel DSP amplifier  
Integrated 8-channel DSP  
4x 80 / 130 W RMS @ 4 / 2 Ω

GZDSP REMOTE PRO-X included!



## Mono class D amplifier

## General information

This space-saving and high-efficient mono amplifier delivers the required power for a demanding subwoofer in any system setup. Furthermore, it matches the GZDSP PRO units perfectly.



GZTA Bassremote available separately

## Model specifications

**GZCS A-1.650D**  
High-quality mono class D amplifier  
1x 250/450/650 W RMS @ 4 / 2 / 1 Ω



## DSP PRO Accessories



**GZDSP REMOTE PRO-X**  
This remote control enables the user to adjust GZDSP PRO units easily from the drivers or passengers seat.

- Features:
- Source selection (with coaxial input)
  - Main level
  - Subwoofer level
  - Preset selection
  - Mute function
  - Including connection wire



**GZDSP BT-BOX\***  
Interface for wireless music streaming  
Compatible with:  
GZDSP 6-8X and 6-8X PRO,  
GZDSP 4.60ISO, GZDSP 4.80A-PRO

- Features:
- Interface for wireless music streaming
  - SBC coded transmission
  - Max. transmission 44.1kHz/16-bit
  - Transmission speed 328 kb/s
  - Max. range 10 m
  - Including connection wire
  - \*not available in the EU



**GZDSP BTB-APP**  
Interface for wireless music streaming and app control  
Compatible with:  
GZDSP 6-8X PRO and  
GZDSP 4.80A-PRO

- Features:
- Interface for wireless music streaming and app control (iOS and Android)
  - SBC coded transmission
  - Max. transmission 44.1kHz/16-bit
  - Transmission speed 328 kb/s
  - Max. range 10 m
  - Including connection wire



**GZCS HLC-2.6**  
Optional adapter for car specific harness  
compatible with  
GZCS 4.0BMW-Connect  
GZCS MB-Connect

Model specifications

GZDSP 4-8XII  
 High-quality 4 to 8 channel DSP  
 4x RCA input / 4x high-level input



General information

The advantage of the DSP technology is available as a stand-alone processor unit ready to be added to every sound system.

Features:

- 8-channel digital signal processor
- 4-channel high-level input
- 4-channel RCA input
- Realtime setting via PC software or APP\*  
 \*(requires optional GZDSP BTS 4-8XII)
- 2x 28-bit Analog Devices signal processor
- Windows GUI software
- 10-band equalizer for each channel
- Time delay correction
- Variable crossover
- Phase correction
- Automatic turn-on function



Accessories



GZDSP REM 4-8XII-S  
 Optional wired remote control



GZDSP BTS 4-8XII  
 USB interface for wireless music streaming & app control  
 Compatible with GZDSP 4-8X / GZDSP 4-8XII  
 Control app available for iOS and Android

Features:

- USB Stick (BT class II)
- BT V4.2 standard
- Transmission frequency 2.4GHz
- Max. range 10 m



## CAR SPECIFIC SERIES

### Suitable Upgrade for the OEM Sound System

Most OEM audio systems lack good performance and hence, cannot satisfy the expectations of sophisticated customers. Especially the basic equipment leaves a lot of space for improvements of dynamics and sound quality. Installing car specific aftermarket loudspeakers and matching amplifiers by GROUND ZERO is a simple way to upgrade the audio system.

The CAR SPECIFIC SERIES solutions consist of various components designed for upgrading the OEM audio systems of modern cars at affordable effort and costs.



Will it fit?  
Scan code for compatibility list!



Model specifications

GZCS A-1.650D  
High-quality mono class D amplifier  
1x 250/450/650 W RMS @ 4 / 2 / 1 Ω



General information

This space-saving and high-efficient mono amplifier delivers the required power for a demanding subwoofer in any system setup. Furthermore, it matches the GZDSP units perfectly.

- Features:
- Class D mono amplifier
  - High-level input with auto-on function
  - 2-channel RCA input
  - Low pass filter
  - Subsonic filter
  - Adjustable Bass Boost
  - Remote control connector

GZTA Bassremote  
available separately



CAR SPECIFIC Amplifiers

Model specifications

GZCS DSPA-4.60ISO  
Compact 4-channel amplifier with built-in DSP  
8-channel digital signal processor  
4x 45/60 W RMS @ 4 / 2 Ω  
ISO-harness for plug 'n' play installation

Available separately:



GZDSP BTS 4-8XII    GZDSP REM 4-8XII-S  
GZCS 4.0BMW-CONNECT  
GZCS MB-CONNECT

GZCS A-4.80  
Micro sized 4-channel amplifier  
4x 60/80 W RMS @ 4 / 2 Ω  
2x 160 W RMS bridged @ 4 Ω

Available separately:  
GZCS ISO-CONNECT  
GZCS 4.0BMW-CONNECT  
GZCS MB-CONNECT



General information

For most simple installations two 4-channel amplifiers are available. The plug 'n' play model for ISO connections has a built-in 8-channel digital signal processor.

The micro-sized model will fit wherever space is limited. An ISO plug 'n' play harness and car specific wires are available, separately.

Accessories



GZCS ISO-CONNECT  
ISO-harness for plug 'n' play installation  
Compatible to GZCS A-4.80



GZCS 4.0BMW-CONNECT  
Used for simple and quick installation of  
GZCS A-4.80 as well as GZCS DSPA-4.60ISO  
in compatible BMW vehicles.



GZCS MB-CONNECT  
Used for simple and quick installation of  
GZCS A-4.80 as well as GZCS DSPA-4.60ISO  
in compatible MB vehicles.

## CAR SPECIFIC Loudspeakers - Mercedes-Benz

### General information

In order to upgrade the basic version of the factory-installed audio system of a Mercedes-Benz car, specially tailored loudspeakers are available for the original slots.

#### GZCS 100.2MB

- MB-specific 2-way component loudspeaker system
- 100 mm / 4" midwoofer with high-tech cone
- GZ-design aluminum cast basket
- High-efficient neodymium motor
- 25 mm / 1" silk dome tweeter
- 12 dB/oct crossover with car-specific connector
- Freq. response 70 Hz – 24 kHz
- Compatible to various MB vehicles



### Model specifications

#### GZCS 100.2MB

MB-specific 2-way component loudspeaker system  
70 W RMS / 110 W max  
Suitable for front and rear doors



#### GZCS F-4.0

Car specific 2-way coaxial loudspeaker  
60 W RMS / 100 W max  
Suitable for front and rear doors  
Including mounting adapters



#### GZCS 100MB-S

MB-specific wide-band surround speakers  
40 W RMS / 60 W max  
Freq. response 150 Hz – 14 kHz  
1 pair



#### GZCS 100MB-C

MB-specific wide-band center speaker  
40 W RMS / 60 W max  
Freq. response 150 Hz – 14 kHz  
Double voice coil / 2x 4 Ω  
1 piece



#### GZCS MB-CONNECT

Plug'n'Play harness for simple installation  
For GZCS A-4.80 and GZCS DSPA-4.60ISO

## CAR SPECIFIC Subwoofer - Mercedes-Benz

### General information

Additionally, the OEM woofer can be replaced by a powerful model. Due to the specific design, there are no changes to the original wiring needed. Check the compatibility chart on the GROUND ZERO web page for the appropriate product for your car model.

Available versions:

- GZCS W-200MB.RH-R:  
Driver side / right hand drive cars

- GZCS W-200MB.RH-L:  
Passenger side / right hand drive cars

- GZCS W-200MB.LH-R:  
Passenger side / left hand drive cars

- GZCS W-200MB.LH-L:  
Driver side / left hand drive cars

### Model specifications

GZCS W-200MB.RH-L/RH-R  
RHD vehicles only

GZCS W-200MB.LH-L/LH-R  
LHD vehicles only

Common features:

- Car specific subwoofer
- 110 W RMS / 220 W max
- Freq. response 30 – 1500 Hz
- 200 mm / 8" coated glass-fiber cone
- Neodymium motor
- Solid aluminum cast protection grill



#### GZCS 200MBR-LHD

Car specific subwoofer for passenger side  
50 W RMS / 90 W max  
Freq. response 40 – 2000 Hz  
LHD vehicles only

## Model specifications

**GZCS 100.2BMW**  
BMW-specific 2-way component  
loudspeaker system  
70 W RMS / 110 W max  
Including mounting adapters



**GZCS F-4.0**  
Car specific 2-way coaxial loudspeaker  
60 W RMS / 100 W max  
Freq. response 70 Hz – 22 kHz  
Including mounting adapters



**GZCS BMW-CENTER**  
BMW-specific 2-way coaxial center speaker  
60 W RMS / 100 W max  
Freq. response 70 Hz – 22 kHz  
1 Piece

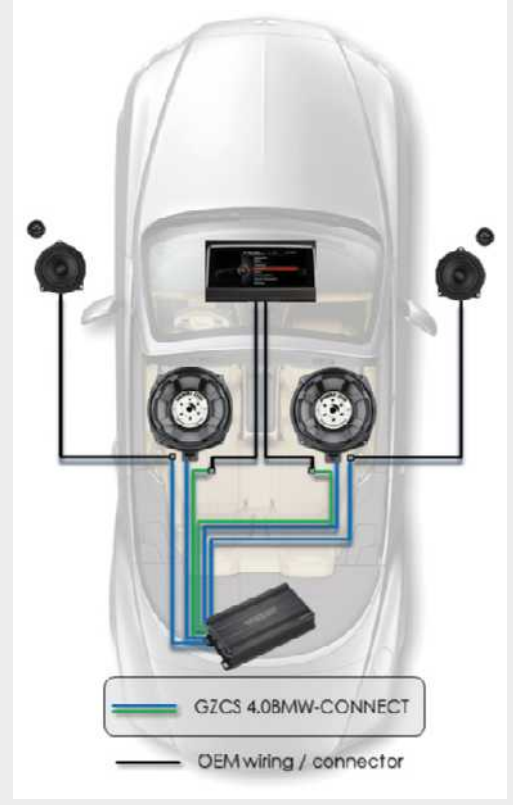
**GZCS 4.0BMW-CONNECT**  
Plug'n'Play harness for simple installation  
For GZCS A-4.80 and GZCS DSPA-4.60ISO

## General information

In order to upgrade the basic version of the factory-installed audio system of a BMW car, specially tailored loudspeakers are available for the original slots.

### GZCS 100.2BMW

- BMW-specific 2-way component loudspeaker system
- 100 mm / 4" midwoofer with high-tech cone
- GZ-design aluminum cast basket
- High-efficient neodymium motor
- 25 mm / 1" silk dome tweeter
- 12 dB/oct crossover with car-specific connector
- Freq. response 70 Hz – 24 kHz
- Compatible with many BMW vehicles\* (from 2003)
- Including mounting adapters



\*Check the latest compatibility chart at the Ground Zero web page

## CAR SPECIFIC Subwoofer - BMW

### Model specifications

**GZCS 200BMW-SW**  
Car specific under-seat subwoofer  
100 W RMS / 160 W max / 2 Ω  
Efficiency 86 dB (SPL)

**GZCS 200BMW-SW4**  
Car specific under-seat subwoofer  
Improved Qts for best performance  
100 W RMS / 160 W max / 4 Ω  
Efficiency 89.1 dB (SPL)

### General information

Additionally to the component speaker system, GROUND ZERO offers matching subwoofers for BMW/MINI in both, 2- & 4-ohms version.

#### Features:

- Car specific under-seat subwoofer (1 pair)
- 200 mm / 8" diameter
- Neodymium motor (2 Ω version)
- Double neodymium motor (4 Ω version)
- 50 mm / 2" copper voice coil
- Freq. response 35 - 250 Hz





## CAR SPECIFIC Loudspeakers - Volkswagen T5/T6

### General information

Made for OEM loudspeaker plug & play replacement upgrading the sound quality of Volkswagen T5 and T6 vehicles with very little installation workload.

### Model specifications

**GZCS 200.2VW-T5/T6**  
Car specific 2-way component system for VW T5 and VW T6  
80 W RMS / 140 W max / 4 Ω  
Efficiency 89 dB (SPL)



## CAR SPECIFIC Components - Volkswagen

Since car manufacturers used to mix OEM speakers for their line-up, many various combinations of tweeters and midwoofers are required to cover a wide range of mounting positions. For this reason, GROUND ZERO offers some separately available components which can be used in any combination for custom setups.



**GZCS T-25S**  
Universal 25 mm / 1"  
silk dome tweeter  
50 W RMS / 80 W max  
Freq. response 4 – 20 kHz



**GZCS T-25VW**  
Car specific 25 mm / 1"  
silk dome tweeter  
50 W RMS / 80 W max  
Freq. response 4 – 20 kHz  
Incl. VW specific connectors



**GZCS K-165VW**  
Car specific 165 mm / 6.5"  
midwoofer  
70 W RMS / 100 W max  
Freq. response 50 Hz – 5 kHz  
Incl. VW specific connectors and mounting adapter



**GZCS K-200.2VW**  
Car specific 200 mm / 8"  
midwoofer  
80 W RMS / 110 W max.  
Freq. response 40 Hz – 4.5 Hz  
Incl. VW specific connectors

## CAR SPECIFIC Speakers

### General information

GROUND ZERO offers some car specific coaxial speaker systems matching the OEM installation positions of a variety of vehicles.

#### Features:

- Car-specific coaxial loudspeakers
- Coated paper cone
- Resonance-free steel basket
- Rubber surround
- Mylar tweeter with 6 dB/oct high pass filter
- Wide range frequency response

### Model specifications

**GZCS 46CX**  
2-way coaxial loudspeaker  
70 W RMS / 110 W max  
Flat gasket



**GZCS 8.7CX**  
coaxial loudspeaker  
50 W RMS / 90 W max  
Suitable for various vehicles



**GZCS 12CX**  
2-way coaxial loudspeaker  
60 W RMS / 100 W max  
Suitable for Mercedes-Benz W124



Model specifications

**GZCS 10SUB**  
 Flat spare wheel subwoofer  
 Double voice coil 2x 2 Ω  
 Power handling 300 W



GZST 4S  
 4-pin push terminal

**GZCS 10SUB-ACT**  
 Flat spare wheel active subwoofer  
 Class AB amplifier 300 W MAX  
 High-Level input with auto-on



GZTA Bassremote  
 Optional remote control for GZCS 10SUB-ACT

General information

Especially the bass response of a basic OEM speaker system leaves many wishes unfulfilled. For some models, GROUND ZERO offers a simple solution that significantly increases the low frequency response. Using the spare wheel compartment, the trunk space remains untouched. This subwoofer solution is available as an active version with integrated amplifier or as a passive version.

Common features:

- High quality spare wheel recess subwoofer
- Perfect solution for a flat spare wheel recess
- No cut-out in the original trunk floor panel required
- Efficient down-firing technology
- Solid sealed MDF enclosure with black carpet
- Silver logo stitch
- High-power 25 cm / 10" woofer

Features (ACT version):

- Class A/B MOSFET amplifier
- Adjustable bass boost
- Phase shift option (phase switch)
- Low pass filter (30 – 120 Hz)
- High-level input with auto-on function
- Remote control connector (GZTA Bassremote available separately)

CAR SPECIFIC Under-seat subwoofer

Model specifications

**GZCS SW-800A**  
 Flat active subwoofer  
 20 cm / 8" driver  
 120 W RMS / 180 W max  
 Including wired remote control



**GZCS SW-1000A**  
 Flat active subwoofer  
 25 cm / 10" driver  
 150 W RMS / 210 W max  
 Including wired remote control



General information

An active subwoofer for the lower frequency response upgrades the bass performance of vehicles with small loudspeakers. GROUND ZERO offers two active under-seat models at the CAR SPECIFIC series with each a solid GZ-design aluminum cast housing. These two come with a particularly flat enclosure enabling the installer to find a place even at the most limited space under the seat.

Common features:

- Under-seat active subwoofer
- Powerful amplifier
- High-level input with auto-on function
- Solid GZ-design aluminum cast housing
- Modest mounting height
- Bass boost control
- Adjustable low pass crossover
- Low current consumption
- Wired remote control included

GZCS Y-BOX

Remote extension box to control two under-seat subwoofers simultaneously







## ((NO VIBRATION - JUST SOUND))

Listening to favorite music is most enjoyable if there is no disturbing noise around. Unfortunately, in-car environments consist of a wide range of materials causing a lot of annoying noises. Especially large scaled body parts tend to vibrate and affect the audio reproduction of the car speakers in a negative way. GROUND ZERO damping materials offer high efficient noise proofing. They reduce vibration, increase bass response as well as dynamics and by that ensure precise audio reproduction. There are particular products for each neuralgic car part influencing the sound quality available.

## DAMPING

### Model specifications

#### GZDM DOORKIT PRO

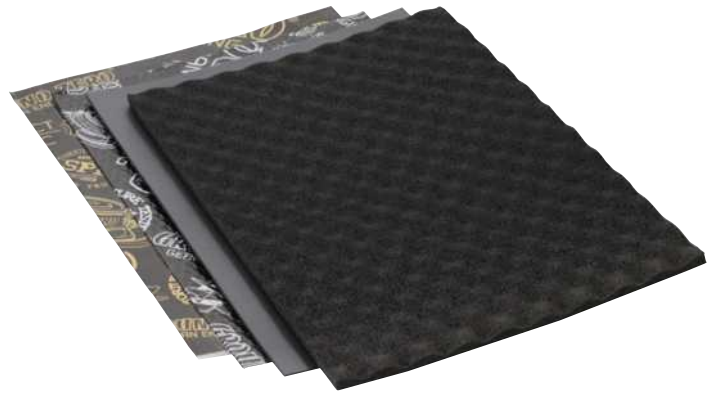
Damping kit for 2 doors

Self-adhesive high-efficient damping material

Package content:

- 2 sheets GZDA 1200AL-GOLD
- Self-adhesive aluminum plate
- 8 sheets GZDM 3750AB-SILVER
- Polymer damping material based on butyl rubber with layer of aluminum
- 4 sheets GZDF 1500SA
- High-efficient sound absorbing polyurethane foam
- 2 sheets GZDF 400SI
- Waterproof high-density noise damping polyethylene foam

Size per sheet: 500 x 375 mm / 19.69" x 14.76"



#### GZDF 400SI

Self-adhesive noise damping and heat insulating material.

High-density, waterproof polyethylene foam reducing standing waves inside the door panel

- Operating temperature -30° to 90° C
- Total thickness 4.0 mm / 0.158"
- Dimensions (sheet) 500 x 375 mm / 19.69" x 14.76"
- Package content 20 sheets



#### GZDF 1500SA-PRO

High-efficient viscous-elastic sound absorbing formed foam with water-repelling surface.

Self-adhesive, heat insulating and vibration damping when compressed.

- Total thickness 15 mm / 0.59"
- Noise absorbing -85%
- Dimensions (sheet) 500 x 375 mm / 19.69" x 14.76"
- Package content 8 sheets



## Model specifications

### GZDM 1400NB-GOLD

Multilayer, non-inflammable damping material based on elastomeric composition with a non-woven textile top layer, providing a clear and accurate music reproduction over a wide frequency range.

- Total thickness 3.0 mm / 0.12"
- Mass (kg/m<sup>2</sup>), at least 6 kg
- Dimensions (sheet) 570 x 350 mm / 22.44" x 13.78"
- Package content 7 sheets

Polymer based on butyl rubber, supplemented with anti-corrosive additives to ensure that the treated surface does not rust. Flexible and waterproof material providing high-effective anti-vibration damping.

### GZDM 3750AB-GOLD

- Total Thickness 2.2 mm / 0.087"
- Mass (kg/m<sup>2</sup>), at least 3.0 kg
- Dimensions (sheet) 750 x 500 mm / 29.53" x 19.69"
- Package content 10 sheets

### GZDM 3750AB-SILVER

- Total Thickness 1.7 mm / 0.067"
- Mass (kg/m<sup>2</sup>), at least 2.4 kg
- Dimensions (sheet) 750 x 500 mm / 29.53" x 19.69"
- Package content 10 sheets

### GZDM 1900ML-GOLD

Flexible multi-layer damping material with polymer based on butyl rubber in combination with bitumen mastic and aluminum foil outer surface.

- Total Thickness 4.2 mm / 0.165"
- Mass (kg/m<sup>2</sup>), at least 6.5 kg
- Dimensions (sheet) 500 x 375 mm / 19.69" x 14.76"
- Package content 10 sheets

### GZDA 1200AL-GOLD

High-strength, self-adhesive aluminium plate to reduce the vibration of metal parts, e.g., door panels. Ultra-thin, temperature and water-resistant material with flame-proof properties.

- Total Thickness 300 µm / 0.012"
- Material thickness 200 µm / 0.008"
- Weight 0.65 kg/m<sup>2</sup> / 60 g/ft<sup>2</sup>
- Dimensions (plate) 500 x 375 mm / 19.69" x 14.76"
- Package content 6 sheets

### GZDM 1900MC-GOLD

Bitumen saturated damping material based on viscous elastic polyurethane foam for soundproofing in combination with a layer of polymer-based butyl rubber and aluminum foil outer surface.

High-efficient soundproofing and anti-vibration damping.

- Total Thickness 7 mm / 0.28"
- Noise absorption -85%
- Water absorption <18%
- Dimensions (sheet) 500 x 375 mm / 19.69" x 14.76"
- Package content 10 sheets

### GZDM 250AL-BassBoost

Self-adhesive multilayer, non-inflammable damping material with a specifically molded aluminum surface reducing the reflection of sound waves and pressure when installed directly behind the speaker.

- Total thickness 15 mm +/- 4 mm
- Dimensions (sheet) 250 x 183 mm / 9.84" x 7.20"
- Package content 2 sheets (for 2 doors)



# ACCESSORIES

This line includes optionally available products to be used at the installation or offer additional features.

## ACCESSORIES - Integration / Wiring



**GZCS MB-CONNECT**  
Car specific wiring harness for Mercedes-Benz



**GZCS 4.0BMW-CONNECT**  
Car specific wiring harness for BMW / MINI



**GZCS ISO-CONNECT**  
ISO-harness for plug 'n' play installation  
Compatible to GZCS A-4.80



**GZCS ISO QUADLOCK I**  
Quadlock to ISO connector  
**GZCS ISO QUADLOCK II**  
Quadlock II to ISO connector



**GZCS Y-BOX**  
Remote extension box to control two under-seat subwoofers simultaneously



**GZDSP BTS 4-8XII**  
USB interface for wireless music streaming & app control  
Compatible with  
GZDSP 4-8X / GZDSP 4-8XII



**GZCV 2.0HL**  
Active 2-channel high to low level converter incl. 12 V remote out



**GZTH 25-28B**  
Tweeter surface housing black rubber touch finish  
Suitable for  
GZRT 25SQ / GZUT 28SQ

## ACCESSORIES - Triple shielded RCA cables

### General information

In order to transmit the music signal unaffectedly and as lossless as possible from the signal source to the amplifier, it requires a high-quality and well-shielded RCA cable. GROUND ZERO offers a number of different models in common lengths.

#### Features:

- Triple shielded, twisted RCA cable
- Gold plated brass RCA connectors
- Black & yellow snake skin
- Blister packaging

### Model specifications

#### GZCC X-TP

Available versions:

- GZCC 0.57X-TP: 0.57 m / 1.87 ft
- GZCC 1.14X-TP: 1.14 m / 3.74 ft
- GZCC 3.14X-TP: 3.14 m / 10.3 ft
- GZCC 5.49X-TP: 5.49 m / 18.01 ft





Model specifications

General information



GZCC 1.3X  
High-quality RCA cable  
1 m / 3.28 ft triple shielded  
Including remote wire

Universal shielded or twisted RCA signal cables, available in different sizes.



GZCC 5.3X  
High quality RCA cable  
5 m / 16.4 ft triple shielded  
Including remote wire



GZCC 5.1XLC  
High quality twisted RCA cable  
5 m / 16.4 ft single shielded

GZCY 30X  
High quality Y-adapter  
1 x female / 2 x male

ACCESSORIES - Power kits

Model specifications

General information



GZPK 50X-II  
50 mm<sup>2</sup> / 0 AWG power kit  
Triple shielded RCA cable  
ANL fuseholder incl. 300 A fuse

GZPK 35X-II  
35 mm<sup>2</sup> / 2 AWG power kit  
Triple shielded RCA cable  
ANL fuseholder incl. 200 A fuse

GZPK 20X-II  
20 mm<sup>2</sup> / 4 AWG power kit  
Triple shielded RCA cable  
Mini ANL fuseholder incl. 80 A fuse

Only an adequately dimensioned and need-based power wiring ensures that the best performance and highest possible power will be delivered by the amplifier. GROUND ZERO offers amplifier wiring kits with different diameters for each power demand including an RCA signal cable.

- High quality amplifier wiring kits
- Flexible CCA wire with copper coating
- Yellow power wire (5.2 m / 17.06 ft)
- Black ground wire (0.8 m / 2.62 ft)
- 2-channel shielded RCA cable (5 m / 16.4 ft)
- Fuse Holder incl. matching fuse
- Connectors and covers



GZPK 10X-II  
10 mm<sup>2</sup> / 7 AWG power kit  
Triple shielded RCA cable  
Mini ANL fuseholder incl. 60 A fuse

GZPK 10XLC-II (w/o picture)  
10 mm<sup>2</sup> / 7 AWG power kit  
Twisted RCA cable  
1.5 m / 4.92 ft speaker cable  
Mini ANL fuseholder incl. 60 A fuse  
Remote cable

## ACCESSORIES - OFC speaker cables

### General information

In order to transport the music signal as lossless as possible from the amplifier to the loud-speaker, a high-quality and sufficiently dimensioned cable is required.

#### Features:

- High quality OFC copper speaker cable
- Black and yellow color isolation
- Highly flexible
- Wooden spool

### Model specifications



Available diameters:

GZSC 6.0X2 OFC: 2x 6.00 mm<sup>2</sup> - 50 m / 164.04 ft spool

GZSC 10.0X2 OFC: 2x 10.00 mm<sup>2</sup> - 50 m / 164.04 ft spool

## ACCESSORIES - CCA speaker cables

### General information

In order to transport the music signal as lossless as possible from the amplifier to the loud-speaker, a high-quality and sufficiently dimensioned cable is required.

#### Features:

- CCA speaker cable features:
- High quality CCA speaker cable
- Black and yellow color isolation
- Highly flexible
- Plastic spool

### Model specifications



Available diameters:

GZSC 2-0.75X: 2x 0.75 mm<sup>2</sup> - 200 m / 656.17 ft spool

GZSC 2-1.50X: 2x 1.50 mm<sup>2</sup> - 200 m / 656.17 ft spool

GZSC 2-2.50X: 2x 2.50 mm<sup>2</sup> - 200 m / 656.17 ft spool

GZSC 2-4.00X: 2x 4.00 mm<sup>2</sup> - 100 m / 328.08 ft spool

## ACCESSORIES - Power cap

### General information

Powerful amplifiers require a stable battery voltage to deliver full performance. This power capacitor compensates the battery's voltage drops caused by high current flow.

### Model specifications

GZTC 1.0FX  
1.0 Farad Power Cap  
16 V / 20 V Surge  
Voltmeter with white illumination



Including mounting brackets





**Model specifications**

Available diameters:  
 GZPC 10B/Y: 10 mm<sup>2</sup> / 7 AWG - 50 m / 164.04 ft spool  
 GZPC 20B/Y: 20 mm<sup>2</sup> / 4 AWG - 50 m / 164.04 ft spool  
 GZPC 35B/Y: 35 mm<sup>2</sup> / 2 AWG - 30 m / 98.43 ft spool  
 GZPC 50B/Y: 50 mm<sup>2</sup> / 0 AWG - 20 m / 65.62 ft spool

**General information**

Only an adequately dimensioned and needs-based power wiring ensures that the best performance and highest possible power will be delivered by the installed components. For this reason, GROUND ZERO offers highly flexible CCA power cables in all common diameters on roles.

- Features:
- High quality CCA power wire
  - Black/Yellow isolation
  - Highly flexible
  - Plastic spool



**More ACCESSORIES**



**GZST 2S**  
2-pin push terminal up to 6 mm<sup>2</sup> speaker cable



**GZST 2B**  
2-pin push terminal up to 10 mm<sup>2</sup> speaker cable



**GZST 4S**  
4-pin terminal up to 6 mm<sup>2</sup> speaker cable including bridges for parallel wiring



**GZAP 70Y**  
High-quality custom ventilation tube  
Airflow optimized tails  
71 mm / 2.80" diameter  
381 mm / 15.00" length

## General information

GROUND ZERO offers a wide range of distribution blocks and fuseholders needed for the installation of audio components in your vehicle. Besides that, further products complete the accessory line.

## Model specifications

**GZBT 2.50MANL-POS**  
Positive battery terminal  
with Mini-ANL fuseholder  
1x 50 mm<sup>2</sup> / 0 AWG unfused  
1x 50 mm<sup>2</sup> / 0 AWG fused



**GZBT 2.50NEG**  
Negative battery terminal  
2x 50 mm<sup>2</sup> / 0 AWG



**GZDB 3.50/4.20**  
Distribution block  
3x 50 mm<sup>2</sup> / 0 AWG  
4x 20 mm<sup>2</sup> / 4 AWG



**GZFH 1.20 IL-MANL**  
In-line Mini-ANL fuseholder  
20 mm<sup>2</sup> / 4 AWG



**GZFH 1.20/1.20 MANL**  
Mini-ANL fuseholder  
20 mm<sup>2</sup> / 4 AWG



**GZFH 1.50/1.50 ANL/MANL**  
ANL / Mini-ANL fuseholder  
50 mm<sup>2</sup> / 0 AWG



**GZFH 1.50/2.20 ANL/MANL**  
ANL / Mini-ANL fuseholder  
1x 50 mm<sup>2</sup> / 0 AWG  
2x 20 mm<sup>2</sup> / 4 AWG



**GZFH 3.50/4.20 ANL/MANL**  
ANL / Mini-ANL fuseholder  
3x 50 mm<sup>2</sup> / 0 AWG  
4x 20 mm<sup>2</sup> / 4 AWG



Blister packaging

## FUSES

### General information

High quality ANL and MANL fuses from 40 up to 400 Ampere, available in blister or in 10 piece bulk packaging.

### Model specifications

**GZFU ANL** (1 piece / blister)  
available 100 – 400 Ampere



**GZFU MANL** (2 pieces / blister)  
available 40 – 200 Ampere





## HEADPHONES

If you would like to enjoy the typical GROUND ZERO sound not only in your vehicle, you may choose one of the two headphones. Both of them delivering a distinctive bass response and the dynamic sound character.












**GZHP 10-IE**  
Powerful in-ear headphone with aluminum housing  
Speaker: 10 mm  
Sensitivity:  $98 \pm 3$  dB at 1 KHz  
Microphone sensitivity:  $-42 \pm 4$  dB  
Frequency Response: 20 Hz – 20 kHz  
Impedance:  $32 \pm 15\%$   $\Omega$   
Plug Type: 3.5 mm jack  
Cable length: 120 cm / 47 in.  
Weight: 15 g  
In-line microphone  
Headset function  
Accessories included



**GZHP 40-OE**  
High quality foldable on-ear headphone  
Speaker: 40 mm  
Sensitivity:  $100 \pm 3$  dB at 1 KHz  
Microphone sensitivity:  $-43 \pm 4$  dB  
Frequency Response: 20 Hz – 20KHz  
Impedance:  $32 \pm 15\%$   $\Omega$   
Max Power: 30 mW  
Plug Type: 3.5 mm  
Cable length: 120 cm / 47"  
Cable: Dual side cable  
Weight: 150 g  
In-Line Mic compatible with Apple/Samsung/HTC and more



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# Amplifiers & DSP Amplifiers

Series


Product	Output power @ 4/2/1 Ohm	Bridged max @ 4/2 Ohm (link mode)	LPF	HPF / *Subsonic	BP	Bass-boost	Phase-shift	Remote	Line Out	High-level & auto-on	Dimensions (mm/inch)
GZ ULTRA A-2	2x 200/330/450 W	1x 1200 W max									250 x 80 x 502 9.84 x 3.15 x 19.76"
GZPA Reference 2 Pure	2x 420/750/1150 W	1x 1800/2700 W max									236 x 68 x 590 mm 9.29 x 2.67 x 23.23"
GZPA Reference 4 Pure-SQ	4x 150/270/425 W	2x 650/1000 W max									236 x 67,5 x 590 mm 9.29 x 2.66 x 23.23"
GZPA 2SQ	2x 175/315/500 W	1x 630/1000 W	✓	✓	✓	✓	✓				222 x 61 x 420 mm 8.74 x 2.40 x 16.54"
GZPA 4SQ	4x 125/225/350 W	2x 450/700 W	✓	✓	✓	✓					222 x 60,5 x 420 mm 8.74 x 2.38 x 16.54"
GZUA 2SQ	2x 170/300/450 W	1x -/1080 W max	✓	✓	✓	✓	✓	✓	✓		209 x 47 x 360 mm 8.23 x 1.81 x 14.17"
GZUA 4SQ	4x 115/185/- W	2x 440/- W max	✓	✓	✓						209 x 47 x 360 mm 8,23 x 1.81 x 14.17"
GZUA 6SQ	4x 110/160/- & 2x 150/270/- W	2x 380 W + 650 W @ 4 ohms max	✓	✓	✓						209 x 47 x 550 mm 8.23 x 1.81 x 21.65"
GZHA MINI ONE	1x 220/390/630 W	1x 1500 W max @ 2 ohms (linkmode)	✓	Subsonic	✓	✓	✓	✓	✓	✓	135 x 52 x 210 mm 5.32 x 2.05 x 8.27"
GZHA MINI ONE-K	1x 340/600/1000 W	1x 2300 W max @ 2 ohms (linkmode)	✓	Subsonic	✓	✓	✓	✓	✓	✓	135 x 52 x 322 mm 5.32 x 2.05 x 12.68"
GZHA MINI ONE-K 24V	1x 340/600/1000 W	1x 2300 W max @ 2 ohms (linkmode)	✓	Subsonic	✓	✓	✓	✓	✓	✓	135 x 52 x 322 mm 5.32 x 2.05 x 12.68"
GZHA MINI TWO	2x 130/230/- W	1x 550 W max @ 4 ohms	✓	✓	✓		✓	✓	✓	✓	135 x 52 x 210 mm 5.32 x 2.05 x 8.27"
GZHA MINI FOUR	4x 80/130/- W	2x 320 W max @ 4 ohms	✓	✓	✓		✓			✓	135 x 52 x 210 mm 5.32 x 2.05 x 8.27"
GZHA MINI FOUR 24V	4x 80/130/- W	2x 320 W max @ 4 ohms	✓	✓	✓		✓			✓	135 x 52 x 210 mm 5.32 x 2.05 x 8.27"
GZHA MINI FIVE	4x 75/125/- W & 1x 190/320/500 W	2x 300 W + 600 W max @ 4 ohms	✓	✓	✓			✓		✓	135 x 52 x 322 mm 5.32 x 2.05 x 12.68"
GZRA 2HD	2x 285/450/- W	1x 1150 W max @ 4 ohms	✓	✓	✓	✓		optional		✓	186 x 52 x 229 mm 7.32 x 2.05 x 10.55"
GZRA 4HD	4x 175/275/- W	2x 700 W max @ 4 ohms	✓	✓	✓					✓	186 x 52 x 268 mm 7.32 x 2.05 x 10.55"
GZTA 2255X-B	2x 150/250/- W	1x 600 W max @ 4 ohm	✓	✓	✓	✓		✓			230 x 53 x 396 mm 9.06 x 2.09 x 16.34"
GZTA 4125X-B	4x 90/130/- W	2x 320 W max @ 4 ohm	✓	✓	✓	✓					230 x 53 x 396 mm 9.06 x 2.09 x 15.59"
GZTA 4230X-B	4x 140/230/-	2x 550 W max @ 4 ohm	✓	✓	✓	✓					230 x 53 x 476 mm 9.06 x 2.09 x 18.74"
GZIA 1.700	1x 230/400/630 W		✓	✓	✓	✓		✓		✓	192 x 49 x 332 mm 7.56 x 1.93 x 13.07"
GZIA 1.2000D	1x 750/1300/1800 W		✓			✓	✓	✓		✓	192 x 49 x 382 mm 7.56 x 1.93 x 15.04"
GZIA 1.1500D	1x 425/775/1300 W		✓			✓	✓	✓		✓	192 x 49 x 360 mm 7.56 x 1.93 x 14.17"
GZIA 1.1150D	1x 370/665/1050 W		✓			✓	✓	✓		✓	192 x 49 x 302 mm 7.56 x 1.93 x 11.89"
GZIA 2.135	2x 85/135/- W	1x 300 W max @ 4 ohms	✓	✓				optional		✓	192 x 49 x 214 mm 7.56 x 1.93 x 8.43"
GZIA 2.240	2x 150/240/- W	1x 550 W max @ 4 ohms	✓	✓				optional		✓	192 x 49 x 284 mm 7.56 x 1.93 x 11.18"
GZIA 2.85	2x 60/85/- W	1x 200 W max @ 4 ohms	✓	✓						✓	192 x 49 x 174 mm 7.56 x 1.93 x 6.85"
GZIA 4.120	4x 70/120/- W	2x 275 W max @ 4 ohms	✓	✓						✓	192 x 49 x 284 mm 7.56 x 1.93 x 11.18"
GZCA 1500.M1	1x - /900/1350 W		✓	✓	✓	✓		✓	✓		230 x 67 x 142 mm 9.06 x 2.64 x 5.59"
GZCA 1500.M2	1x 900/1350/- W		✓	✓	✓	✓		✓	✓		230 x 67 x 142 mm 9.06 x 2.64 x 5.59"
GZCA 3000.M1	1x - /1600/2600 W		✓	✓	✓	✓		✓	✓		230 x 210 x 67 mm 9.06 x 8.27 x 2.64"
GZCA 3000.M2	1x 1600/2600/- W		✓	✓	✓	✓		✓	✓		230 x 210 x 67 mm 9.06 x 8.27 x 2.64"
GZCA 5000.M1	check manual		✓	✓	✓	✓		✓	✓		check manual
GZCS A-1.650D	1x 250/450/650 W		✓	✓	✓	✓	✓	✓		✓	185 x 47 x 148 mm 7.28 x 1.85 x 5.83"
GZCS A-4.80	4x 60/80/- W	2x 160 W RMS @ 4 ohms	✓	✓						✓	82 x 10 x 171 mm 3.32 x 1.57 x 6.73"
GZCS DSPA-4.60ISO	4x 45/60/- W							optional	4 channel	✓	160 x 52 x 136 mm 6.30 x 2.05 x 5.35"
GZDSP 4.80A-PRO	4x 80/130/- W	2x 260 W RMS @ 4 ohms						optional	4 channel	✓	185 x 42 x 237 mm 7.28 x 1.77 x 9.33"
GZBA 1.300X (included in GZ Bass Kit 12.300X-II)	1x 200 W RMS @ 4 ohms 1x 300 W max @ 4 ohms		✓	✓	✓	✓	✓	✓		✓	180 x 53 x 236 mm 7.09 x 2.09 x 9.29"




**Active Subwoofers**


Series

Product	Woofer	Type	Enclosure	Dimensions (mm/inch)	Lowpass	Bass remote	Output power
GZUB 1000XACTII	250 mm / 10"	Under-seat subwoofer	Aluminum cast	360 x 270 x 78 mm / 14.17 x 10.63 x 3.07"	50 - 100 Hz	✓	150 / 210 W
GZUB 800XACTII	200 mm / 8"	Under-seat subwoofer	Aluminum cast	345 x 240 x 68 mm / 13.58 x 9.45 x 2.68"	50 - 100 Hz	✓	120 / 180 W
GZTB 20ACT	200 mm / 8"	Under-seat subwoofer	Plastic injection	345 x 237 x 72 mm / 13.58 x 9.33 x 2.83"	50 - 100 Hz	✓	100 / 160 W
GZIB 20BR-ACT	200 mm / 8"	Front-Basstunnel vented	MDF 17 L / 0.6 ft <sup>3</sup>	400 x 270 x 305 (245 mm) / 15.75 x 10.63 x 12.01 (9.65")	30 - 120 Hz	optional	120 / 220 W
GZIB 25BR-ACT	250 mm / 10"	Front-Basstunnel vented	MDF 33 L / 1.17 ft <sup>3</sup>	440 x 360 x 320 (285 mm) / 17.32 x 14.17 x 12.60 (11.22")	30 - 120 Hz	optional	150 / 270 W
GZIB 30BR-ACT	300 mm / 12"	Front-Basstunnel vented	MDF 37 L / 1.31 ft <sup>3</sup>	460 x 370 x 400 (310 mm) / 18.11 x 14.57 x 15.75 (12.20")	30 - 120 Hz	optional	180 / 300 W
GZCS SW-800A	200 mm / 8"	Under-seat subwoofer	Aluminum cast	300 (315) x 235 x 80 mm / 11.81 (12.40) x 9.25 x 3.15"	50 - 150 Hz	✓	120 / 180 W
GZCS SW-1000A	250 mm / 10"	Under-seat subwoofer	Aluminum cast	350 (365) x 270 x 80 mm / 13.78 (14.37) x 10.63 x 3.15"	50 - 150 Hz	✓	150 / 210 W
GZCS 10SUB-ACT	250 mm / 10"	Spare wheel recess	MDF 15 L / 0.53 ft <sup>3</sup>	620 x 440 x 120 (153 mm incl. feet) / 24.4 x 17.32 x 4.72 (6.02" incl. feet)	30 - 120 Hz	optional	300 W max


**Subwoofer Enclosures**


Series

Product	Woofer	Type	Net. Volume	Dimensions (mm/inch)	Impedance	Power handling	Recommended amplifier power
GZCS 10SUB	250 mm / 10"	Sealed	15 L / 0.53 ft <sup>3</sup>	620 x 440 x 120 (153 mm incl. feet) / 24.4 x 17.32 x 4.72 (6.02" incl. feet)	2 x 2 Ω	160 WRMS / 300 W max	150 - 300 W
GZUB 8BR	200 mm / 8"	Airflow-optimized vented	20.5 L / 0.72 ft <sup>3</sup>	430 x 250 x 318 (265) mm / 16.93 x 9.84 x 12.52 (10.43")	2 x 2 Ω	300 WRMS	200 - 400 W
GZUB 10BR	250 mm / 10"	Airflow-optimized vented	30 L / 1.06 ft <sup>3</sup>	460 x 320 x 327 (255) mm / 18.11 x 12.60 x 12.87 (10.04")	2 x 2 Ω	450 WRMS	300 - 600 W
GZUB 12BR	300 mm / 12"	Airflow-optimized vented	42 L / 1.48 ft <sup>3</sup>	520 x 380 x 358 (260) mm / 20.47 x 14.96 x 14.09 (10.24")	2 x 2 Ω	600 WRMS	400 - 800 W
GZRB 16SPL	165 mm / 6.5"	Basstunnel vented	8.5 L / 0.3 ft <sup>3</sup>	410 x 280 x 130 mm / 16.14 x 11.02 x 5.12"	2 x 2 Ω	350 WRMS / 700 WSPL	250 - 700 W
GZRB 20SPL	200 mm / 8"	Airflow-optimized vented	21 L / 0.74 ft <sup>3</sup>	440 x 240 x 280 mm / 17.32 x 9.45 x 11.02"	2 x 2 Ω	500 WRMS / 1000 WSPL	400 - 1000 W
GZRB 25SPL	250 mm / 10"	Airflow-optimized vented	28 L / 0.99 ft <sup>3</sup>	480 x 305 x 280 mm / 18.9 x 12.0 x 11.02"	2 x 2 Ω	500 WRMS / 1000 WSPL	400 - 1000 W
GZRB 30SPL	300 mm / 12"	Front-Basstunnel vented	66.6 L / 2.35 ft <sup>3</sup>	650 x 380 x 450 (330) mm / 25.59 x 14.96 x 17.72 (12.99")	2 x 2 Ω	700 WRMS / 1350 WSPL	500 - 1200 W
GZIB 20BR	200 mm / 8"	Front-Basstunnel vented	17 L / 0.6 ft <sup>3</sup>	400 x 270 x 290 (230 mm) / 15.75 x 10.63 x 11.42 (9.06")	4 Ω	150 WRMS	100 - 200 W
GZIB 25BR	250 mm / 10"	Front-Basstunnel vented	33 L / 1.17 ft <sup>3</sup>	440 x 320 x 360 (285 mm) / 17.32 x 12.30 x 14.17 (11.22")	4 Ω	250 WRMS	200 - 300 W
GZIB 30BR	300 mm / 12"	Front-Basstunnel vented	37 L / 1.31 ft <sup>3</sup>	460 x 370 x 400 (310 mm) / 18.11 x 14.57 x 15.75 (12.20")	4 Ω	350 WRMS	200 - 400 W
GZIB 2.30BR	2 x 300 mm / 2x 12"	Front-Basstunnel vented	70 L / 2.47 ft <sup>3</sup>	815 x 370 x 400 (310 mm) / 32.09 x 14.57 x 15.75 (12.20")	2 x 2 Ω	700 WRMS	400 - 800 W
GZIB 12SPL	300 mm / 12"	Front-Basstunnel vented	45 L / 1.59 ft <sup>3</sup>	560 x 380 x 360 (260) / 22.05 x 14.96 x 14.17 (10.24")	2 x 2 Ω	500 WRMS / 1000 WSPL	300 - 1000 W
GZIB 2.12SPL	2 x 300 mm / 2x 12"	Front-Basstunnel vented	90 L / 3.54 ft <sup>3</sup>	840 x 400 x 430 (310 mm) / 33.07 x 15.75 x 16.93 (12.2")	4 x 2 Ω	1000 WRMS / 2000 WSPL	600 - 1400 W
GZ BASS KIT 12.300X-II	300 mm / 12"	Airflow-optimized vented	40 L / 1.41 ft <sup>3</sup>	520 x 360 x 350 (250) mm / 20.47 x 14.17 x 13.78 (9.84")	4 Ω	300 WRMS	200 - 500 W

 Speaker Systems


Series

Product	Nominal Ø	Mounting Ø	Depth	Tweeter	Midwoofer	Frequency range	Impedance	Power handling RMS/MAX
GZUC 165.2SQ	165 mm / 6.5"	144 mm / 5.67"	63 mm / 2.48"	GZUT 28SQ(X)	GZUK 165SQ	40 Hz - 25 kHz	4 Ω	140 / 230 W
GZUC 165.2SQ-ACT	165 mm / 6.5"	144 mm / 5.67"	63 mm / 2.48"	GZUT 28SQ(X)	GZUK 165SQ	40 Hz - 25 kHz	4 / 4 Ω	120 / 200 W + 80 / 120 W (Tw)
GZUC 165.3SQ	165 mm / 6.5" 55 mm / 2.17"	144 mm / 5.67" 64.5 mm / 2.54"	63 mm / 2.48" 33 mm / 1.30"	GZUT 28SQ(X)	GZUK 165SQ & GZUM 55SQ	40 Hz - 25 kHz	4 Ω	160 / 250 W
GZUC 165.3SQ-ACT	165 mm / 6.5" 55 mm / 2.17"	144 mm / 5.67" 64.5 mm / 2.54"	63 mm / 2.48" 33 mm / 1.30"	GZUT 28SQ(X)	GZUK 165SQ & GZUM 55SQ	40 Hz - 25 kHz	4 / 4 / 4 Ω	120 / 200 W + 90 / 150 W + 80 / 120 W (Tw)
GZHC 165.2	165 mm / 6.5" 55 mm / 2.17"	144 mm / 5.67" 64.5 mm / 2.54"	69 mm / 2.72" 33 mm / 1.30"	GZHT 25S	GZHK 165	40 Hz - 24 kHz	4 / 4 Ω	130 / 220 W
GZRC 165.2SQ	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	GZRT 25SQ	GZRK 165SQ	35 Hz - 25 kHz	3 Ω	120 / 190 W
GZRC 165.2SQ-IV	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	GZRT 25SQ	GZRK 165SQ	35 Hz - 25 kHz	3 Ω	120 / 190 W
GZRC 165.3SQ	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	GZRT 25SQ	GZRK 165SQ	35 Hz - 25 kHz	3 Ω	160 / 250 W
GZRC 165.3SQ-ACT	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	GZRT 25SQ	GZRK 165SQ & GZRM 80SQ	35 Hz - 25 kHz	3 / 4 / 4 Ω	110 / 160 W + 50 / 80 W + 70 / 110 W (Tw)
GZTC 130.2X	130 mm / 5.12"	117.5 mm / 4.61"	61 mm / 2.40"	GZTT 20S	HQPP cone with 3D-structure	60 Hz - 22 kHz	3 Ω	80 / 130 W
GZTC 165.2X	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	GZTT 20S	GZTK 165	50 Hz - 22 kHz	3 Ω	100 / 150 W
GZTC 165.3X-II	165 mm / 6.5" 100 mm / 4"	142.5 mm / 5.61" 94 mm / 3.70"	68 mm / 2.68" 32 mm / 1.26"	GZTT 20S	GZTK 165 & GZTM 100NEO	50 Hz - 22 kHz	3 Ω	120 / 180 W
GZTC 165.3X-ACT	165 mm / 6.5" 100 mm / 4"	142.5 mm / 5.61" 94 mm / 3.70"	68 mm / 2.68" 32 mm / 1.26"	19 mm / 0.75 soft dome	GZTK 165 & GZTM 100NEO	50 Hz - 22 kHz	3 / 3 / 4 Ω	80 / 110 W + 40 / 50 W + 30 / 40 W (Tw)
GZIC 130.2	130 mm / 5.25"	117.5 mm / 4.61"	58 mm / 2.28"	19 mm / 0.75 soft dome	HQPP cone with 3D-structure	60 Hz - 20 kHz	4 Ω	90 / 140 W
GZIC 165.2	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	19 mm / 0.75 soft dome	HQPP cone with 3D-structure	50 Hz - 20 kHz	4 Ω	100 / 150 W
GZIC 400FX	100 mm / 4"	93 mm / 3.66"	30 mm / 1.18"	19 mm / 0.75 soft dome	Coated paper cone	70 Hz - 20 kHz	4 Ω	60 / 100 W
GZIC 650FX	165 mm / 6.5"	142.5 mm / 5.61"	44 mm / 1.73"	19 mm / 0.75 soft dome	Coated paper cone	50 Hz - 20 kHz	4 Ω	100 / 140 W
GZIC 165.2SPL	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	25 mm / 1.0" Mylar dome	GZIK 165SPL	45 Hz - 20 kHz	3 Ω	120 / 200 W
GZCC 165.2SQL	165 mm / 6.5"	145 mm / 5.7"	71.5 mm / 2.81"	GZCT 25SQL	GZCK 165XSPL	50 Hz - 22 kHz	4 Ω	160 / 300 W
GZCC 200.2SQL	200 mm / 8"	183 mm / 7.2"	86 mm / 3.39"	GZCT 25SQL	GZCK 200XSPL	50 Hz - 22 kHz	4 Ω	200 / 380 W
GZCS 100.2MB	100 mm / 4"	Car Specific	Car Specific	25 mm / 1.0" coated silk dome	Kevlar cone	70 Hz - 25 kHz	4 Ω	70 / 100 W
GZCS 100.2BMW	100 mm / 4"	Car Specific	Car Specific	25 mm / 1.0" coated silk dome	Kevlar cone	70 Hz - 25 kHz	4 Ω	70 / 100 W
GZCS 200.2VW-T5/T6	200 mm / 8"	Car Specific	Car Specific	28 mm / 1.1" silk dome	Carbon cone	40 Hz - 20 kHz	4 Ω	80 / 140 W

 Coaxial Speakers

Series

Product	Nominal Ø	Mounting Ø	Depth	Tweeter	Midwoofer	Frequency range	Impedance	Power handling RMS/MAX
GZRF 4.0SQ	100 mm / 4"	93 mm / 3.66"	47 mm / 1.85"	19 mm / 0.51" silk dome	Black aluminum cone	70 Hz - 24 kHz	3 Ω	70 / 110 W
GZRF 5.2SQ	130 mm / 5.25"	117.5 mm / 4.63"	59 mm / 2.32"	19 mm / 0.51" silk dome	Black aluminum cone	60 Hz - 24 kHz	3 Ω	80 / 120 W
GZRF 6.5SQ	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	19 mm / 0.51" silk dome	Black aluminum cone	50 Hz - 24 kHz	3 Ω	100 / 140 W
GZRF 69SQ	150 x 230 mm / 6 x 9"	152 x 214 mm / 5.98 x 8.4"	82 mm / 3.23"	13 mm / 0.51" PEI & 50 mm / 2" PEI midrange	Black aluminum cone	40 Hz - 24 kHz	3 Ω	130 / 200 W
GZTF 4.0X	100 mm / 4"	93 mm / 3.66"	51 mm / 2.01"	13 mm / 0.51" Mylar	HQPP cone with 3D structure	70 Hz - 22 kHz	3 Ω	70 / 100 W
GZTF 5.2X	130 mm / 5.25"	117.5 mm / 4.63"	62 mm / 2.44"	13 mm / 0.51" Mylar	HQPP cone with 3D structure	60 Hz - 22 kHz	3 Ω	80 / 110 W
GZTF 6.5X	165 mm / 6.5"	143.5 mm / 5.65"	67 mm / 2.64"	13 mm / 0.51" Mylar	HQPP cone with 3D structure	50 Hz - 22 kHz	3 Ω	90 / 130 W
GZTF 69X	150 x 230 mm / 6 x 9"	152 x 214 mm / 5.98 x 8.4"	85 mm / 3.35"	13 mm / 0.51" Mylar & 55 mm / 2.2" midrange	HQPP cone with 3D structure	40 Hz - 22 kHz	3 Ω	130 / 190 W
GZIF 4001FX	100 mm / 4"	93 mm / 3.66"	30 mm / 1.18"	13 mm / 0.51" Mylar	Coated paper cone	80 Hz - 20 kHz	4 Ω	50 / 90 W
GZIF 5201FX	130 mm / 5.25"	117.5 mm / 4.63"	37 mm / 1.46"	13 mm / 0.51" Mylar	Coated paper cone	70 Hz - 20 kHz	4 Ω	60 / 100 W
GZIF 6501FX	165 mm / 6.5"	142.5 mm / 5.61"	44 mm / 1.73"	13 mm / 0.51" Mylar	Coated paper cone	60 Hz - 20 kHz	4 Ω	70 / 110 W
GZIF 4.0	100 mm / 4"	93 mm / 3.66"	48 mm / 1.89"	13 mm / 0.51" Mylar	HQPP cone with 3D structure	70 Hz - 20 kHz	4 Ω	60 / 100 W
GZIF 5.2	130 mm / 5.25"	117,5 mm / 4.63"	56 mm / 2.20"	13 mm / 0.51" Mylar	HQPP cone with 3D structure	60 Hz - 20 kHz	4 Ω	70 / 110 W
GZIF 6.5	165 mm / 6.5"	142,5 mm / 5.61"	63 mm / 2.48"	13 mm / 0.51" Mylar	HQPP cone with 3D structure	50 Hz - 20 kHz	4 Ω	80 / 120 W
GZIF 69	150 x 230 mm / 6 x 9"	152 x 214 mm / 5.98 x 8.40"	83 mm / 3.27"	13 mm / 0.51" Mylar & 50 mm / 2" midrange	HQPP cone with 3D structure	40 Hz - 20 kHz	4 Ω	120 / 180 W
GZCF 6.5SPL	165 mm / 6.5"	145 mm / 5.7"	72 mm / 2.83"	25 mm / 1" Mylar tweeter	Fiber reinforced paper cone	50 Hz - 20 kHz	4 Ω	100 / 250 W
GZCF 8.0SPL	200 mm / 8"	183 mm / 7.2"	87 mm / 3.43"	25 mm / 1" Mylar tweeter	Fiber reinforced paper cone	40 Hz - 20 kHz	4 Ω	150 / 300 W
GZCF 69SPL	150 x 230 mm / 6 x 9"	152 x 214 mm / 5.98 x 8.40"	84 mm / 3.31"	25 mm / 1" Mylar tweeter	Fiber reinforced paper cone	50 Hz - 20 kHz	4 Ω	150 / 300 W
GZCF 165NEO-PRO	165 mm / 6.5"	147 mm / 5.79"	86 mm / 3.39"	25 mm / 1" PEI compression tweeter	Coated paper cone	150 Hz - 20 kHz	4 Ω + 4 Ω	150 + 50 / 300 + 100 W
GZCF 200NEO-PRO	200 mm / 8"	check manual	check manual	25 mm / 1" PEI compression tweeter	Coated paper cone	130 Hz - 20 Hz	4 Ω + 4 Ω	250 + 50 / 400 + 100 W
GZCF 6.5SPL-NEO	165 mm / 6.5"	144 mm / 5.67"	68 mm / 2.68"	28 mm / 1.1" Mylar	Coated paper cone	50 Hz - 20 kHz	4 Ω	100 / 250 W
GZCF 7104XSPL	180 x 250 mm / 7 x 10"	152 x 214 mm / 5.98 x 8.4"	86 mm / 3.39"	13 mm / 0.51" PEI & 13mm / 0.51" piezoelectric 50 mm / 2" papercone midrange	Fiber reinforced paper cone	35 Hz - 25 kHz	4 Ω	200 / 300 W
GZCS 12CX	120 mm / 4.7"	109 mm / 4.29"	50 mm / 1.97"	13 mm / 0.51" Mylar	Coated paper cone	75 Hz - 20 kHz	4 Ω	60 / 100 W
GZCS 46CX	100 x 150 mm / 4 x 6"	Car specific	48 mm / 1.89"	13 mm / 0.51" Mylar	Coated paper cone	80 Hz - 20 kHz	4 Ω	70 / 110 W
GZCS 8.7CX	87 mm / 3.43"	Car specific	43 mm / 1.69"	13 mm / 0.51" Mylar	Coated paper cone	100 Hz - 20 kHz	4 Ω	50 / 90 W
GZCS 100MB-C	100 mm / 4"	91 mm / 3.58"	37 mm / 1.46"	n/a	Kevlar cone	100 Hz - 17 kHz	4 Ω + 4 Ω	50 / 90 W
GZCS 100MB-S							4 Ω	
GZCS F4.0	100 mm / 4"	94 mm / 3.70"	39 mm / 1.54"	25 mm / 1" silk dome	Kevlar cone	70 Hz - 22 kHz	4 Ω	60 / 100 W
GZCS BMW-CENTER	Car specific	94 mm / 3.70"	39 mm / 1.54"	25 mm / 1" silk dome	Kevlar cone	70 Hz - 22 kHz	4 Ω	60 / 100 W
GZRM 165X	165 mm / 6.5"	142.5 mm / 5.61"	62 mm / 2.44"	13 mm / 0.51" Mylar	IMPP cone	60 Hz - 25 kHz	4 Ω	70 / 120 W

 Kickwoofer / Midwoofer / Midrange Speakers

Series	Product	Nominal Ø	Mounting Ø	Depth	Voice coil Ø	Cone	FS	QTS	VAS	Frequency range	Impedance	Power handling RMS/MAX
	GZ Ultra K-165	165 mm / 6.5"	147 mm / 5.79"	67 mm / 2.64"	34 mm / 1.34"	Carbon-fleece sandwich type	43 Hz	0.51	20.4 L / 0.72 ft <sup>3</sup>	45 Hz - 5 kHz	4 Ω	100 / 160 W
	GZPF 40SQX	40 mm / 1.57"	48 mm / 1.89"	39 mm / 1.54"	16 mm / 0.63"	Anodized aluminum	440 Hz	n/a	n/a	600 Hz - 24 kHz	4 Ω	50 / 80 W
	GZPM 80SQ-C	80 mm / 3.15"	77 mm / 3.03"	39 mm / 1.54"	25 mm / 1"	Ceramics-coated aluminum	tba	tba	tba	150 Hz - 4 kHz	4 Ω	70 / 110 W
	GZPK 165SQ-C	165 mm / 6.5"	144 mm / 5.67"	70 mm / 2.76"	40 mm / 1.57"	Ceramics-coated aluminum	38 Hz	0.41	27.9 L / 0.98 ft <sup>3</sup>	40 Hz - 5 kHz	4 Ω	140 / 200 W
	GZNM 80SQ-K	80 mm / 3.15"	77 mm / 3.03"	39 mm / 1.54"	25 mm / 1"	Kevlar	tba	tba	tba	150 Hz - 4 kHz	4 Ω	70 / 110 W
	GZNK 165SQ-K	165 mm / 6.5"	144 mm / 5.67"	70 mm / 2.76"	40 mm / 1.57"	Kevlar	43 Hz	0.48	24.13 L / 0.85 ft <sup>3</sup>	40 Hz - 5 kHz	4 Ω	130 / 190 W
	GZUM 55SQ	55 mm / 2.2"	64.5 mm / 2.54"	33 mm / 1.29"	55 mm / 2.17"	Precision-coated silk dome	353 Hz	n/a	n/a	500 Hz - 11 kHz	4 Ω	90 / 150 W
	GZUF 60SQ-A	60 mm / 2.36"	61 mm / 2.4"	36 mm / 1.42"	25 mm / 1"	Anodized aluminum	150 Hz	0.64	0.5 L / 0.18 ft <sup>3</sup>	300 Hz - 20 kHz	4 Ω	50 / 80 W
	GZUM 80SQ	80 mm / 3.15"	76.5 mm / 3.01"	35 mm / 1.38"	25 mm / 1"	Anodized aluminum	134 Hz	0.34	0.7 L / 0.024 ft <sup>3</sup>	200 Hz - 6 kHz	4 Ω	50 / 80 W
	GZUK 165SQ	165 mm / 6.5"	144 mm / 5.67"	61 mm / 2.40"	50 mm / 2"	Anodized aluminum	54.6 Hz	0.64	12.6 L / 0.44 ft <sup>3</sup>	40 Hz - 3.5 kHz	4 Ω	120 / 180 W
	GZHK 165	165 mm / 6.5"	144 mm / 5.67"	69 mm / 2.72"	38 mm / 1.5"	Non-pressed paper	49.4 Hz	0.49	15.9 L / 0.56 ft <sup>3</sup>	40 Hz - 5 kHz	4 Ω	120 / 180 W
	GZRM 80SQ	80 mm / 3.15"	76.5 mm / 3.01"	34 mm / 1.34"	25 mm / 1"	Anodized aluminum	114 Hz	0.38	1.5 L / 0.052 ft <sup>3</sup>	140 Hz - 4 kHz	4 Ω	50 / 80 W
	GZRK 165SQ	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	25 mm / 1"	Anodized aluminum	60.1 Hz	0.65	11.5 L / 0.41 ft <sup>3</sup>	35 Hz - 4 kHz	3 Ω	110 / 160 W
	GZTM 100NEO	100 mm / 4"	94 mm / 3.7"	32 mm / 1.26"	25 mm / 1"	HQPP	127.8 Hz	1.77	1.8 l / 0.06 ft <sup>3</sup>	250 Hz - 7 kHz	3 Ω	40 / 60 W
	GZTK 165	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	25 mm / 1"	HQPP with 3D structure	81.6 Hz	0.94	7.27 L / 0.26 ft <sup>3</sup>	50 Hz - 4 kHz	3 Ω	80 / 100 W
	GZIK 165SPL	165 mm / 6.5"	142.5 mm / 5.61"	68 mm / 2.68"	25 mm / 1"	HQPP with 3D structure	61.5 Hz	0.84	11.12 L / 0.39 ft <sup>3</sup>	45 Hz - 4 kHz	3 Ω	80 / 120 W
	GZCM 6.5N-PRO	170 mm / 6"	148 mm / 5.83"	68 mm / 2.68"	38 mm / 1.5"	Reinforced paper	116.2 Hz	0.33	5.6 L / 0.20 ft <sup>3</sup>	150 Hz - 12 kHz	4 Ω	200 / 400 W
	GZCM 8.0N-PRO	200 mm / 8"	184 mm / 7.24"	83 mm / 3.27"	63 mm / 2.5"	Reinforced paper	102.2 Hz	0.28	9.1 L / 0.32 ft <sup>3</sup>	130 Hz - 10 kHz	4 Ω	300 / 500 W
	GZCM 6.5NEO-DC	165 mm / 6.5"	143 mm / 5.63"	65 mm / 2.56"	38 mm / 1.5"	Fiber-reinforced paper	133.2 Hz	0.37	4.09 L / 0.14 ft <sup>3</sup>	240 Hz - 12 kHz	4 Ω	120 / 320 W
	GZCM 8.0NEO-DC	200 mm / 8"	182 mm / 7.17"	76 mm / 2.99"	38 mm / 1.5"	Fiber-reinforced paper	123.3 Hz	0.43	7.57 L / 0.27 ft <sup>3</sup>	160 Hz - 7 kHz	4 Ω	180 / 420 W
	GZCM 6.5SPL	165 mm / 6.5"	143 mm / 5.63"	72 mm / 2.83"	38 mm / 1.5"	Reinforced paper	189.4 Hz	0.96	1.9 L / 0.067 ft <sup>3</sup>	220 Hz - 10 kHz	4 Ω	100 / 300 W
	GZCM 8.0SPL	200 mm / 8"	182 mm / 7.17"	87 mm / 3.43"	38 mm / 1.5"	Reinforced paper	90.6 Hz	0.58	17.2 L / 0.607 ft <sup>3</sup>	140 Hz - 10 kHz	4 Ω	150 / 400 W
	GZCM 10.0SPL	250 mm / 10"	231 mm / 9.09"	98 mm / 3.86"	50 mm / 2"	Reinforced paper	76.2 Hz	0.65	31 L / 1.095 ft <sup>3</sup>	100 Hz - 10 kHz	4 Ω	200 / 500 W
	GZCK 165XSPL	165 mm / 6.5"	145 mm / 5.7"	72 mm / 2.83"	38 mm / 1.5"	Reinforced paper	56.8 Hz	0.31	16.2 L / 0.57 ft <sup>3</sup>	50 Hz - 10 kHz	4 Ω	100 / 250 W
	GZCK 200XSPL	200 mm / 8"	183 mm / 7.2"	86 mm / 3.39"	38 mm / 1.5"	Reinforced paper	54.3 Hz	0.38	31.2 L / 1.10 ft <sup>3</sup>	50 Hz - 6 kHz	4 Ω	150 / 300 W
	GZCK 250XSPL	250 mm / 10"	235 mm / 9.25"	110 mm / 4.33"	50 mm / 2"	Reinforced paper	44 Hz	0.41	43.6 L / 1.54 ft <sup>3</sup>	40 Hz - 6 kHz	4 Ω	200 / 400 W
	GZCW 12-75SPL	300 mm / 12"	282 mm / 11.1"	133 mm / 5.24"	75 mm / 3"	Reinforced paper	42.2 Hz	0.27	71.9 L / 2.54 ft <sup>3</sup>	40 Hz - 3 kHz	4 Ω	400 / 800 W

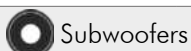
 **Tweeters**

Series	Product	Outer Ø incl. frame	Mounting Ø incl. frame	Mounting depth	Voice coil Ø	Dome	FS	Frequency range	Impedance	Power handling RMS/max
	GZ ULTRA T-30	76 mm / 2.99"	60 mm / 2.36"	41 mm / 1.61"	30 mm / 1.18"	Soft dome	500 Hz	1 - 26 kHz	4 Ω	100 / 150 W
	GZPT 28SQ	54 mm / 2.13"	48 mm / 1.89"	35 mm / 1.38"	28 mm / 1.1"	Coated silk	770 Hz	2 - 30 kHz	4 Ω	100 / 150 W
	GZNT 28SQ	53 mm / 2.09"	48 mm / 1.89"	29 mm / 1.14"	28 mm / 1.1"	Coated silk	990 Hz	2 - 25 kHz	4 Ω	90 / 140 W
	GZUT 28SQX	54 mm / 2.13"	48 mm / 1.89"	18 mm / 0.70"	28 mm / 1.1"	Coated silk	1300 Hz	2.5 - 25 kHz	4 Ω	80 / 130 W
	GZHT 25S	54 mm / 2.13"	48 mm / 1.89"	22 mm / 0.87"	25 mm / 1"	Coated silk	1400 Hz	2.2 - 24 kHz	4 Ω	70 / 110 W
	GZRT 25SQ	54 mm / 2.13"	48 mm / 1.89"	16 mm / 0.63"	25 mm / 1"	Coated silk	1550 Hz	3 - 25 kHz	4 Ω	70 / 110 W
	GZTT 20S	54 mm / 2.13"	46 mm / 1.81"	18 mm / 0.70"	20 mm / 0.79"	Coated silk	1700 Hz	3 - 22 kHz	4 Ω	40 / 70 W
	GZCS T-25S	39.5 mm w/o frame	44 mm / 1.73"	22 mm / 0.87"	25 mm / 1"	Soft dome	1460 Hz	4 - 20 kHz	4 Ω	50 / 80 W
	GZCS T-25VW	VW specific	VW specific	VW specific	25 mm / 1"	Soft dome	1460 Hz	4 - 20 kHz	4 Ω	50 / 80 W

 **Competition & Competition PRO Tweeters**


Series	Product	Outer Ø w/o frame	Mounting Ø	Mounting depth	Voice coil Ø	Dome	Frequency range	Impedance	Power handling RMS/MAX
	GZCT 0500X	58 mm / 2.28"	43 mm / 1.69"	43 mm / 1.69"	25 mm / 1"	Aluminum	4 - 25 kHz	4 Ω	30 / 100 W
	GZCT 500IV-B	58 mm / 2.28"	43 mm / 1.69"	37 mm / 1.46"	25 mm / 1"	Aluminum	4 - 25 kHz	4 Ω	30 / 100 W
	GZCT 19N-PROX (B/S)	83 x 67 mm / 3.27 x 2.64"	60 x 46 / 2.36 x 1.81"	48 mm / 1.89"	25 mm / 1"	Polyamide	3 - 22 kHz	4 Ω	30 / 100 W
	GZCT 25SQL	75 mm / 2.95"	50 mm / 1.97"	36 mm / 1.42"	25 mm / 1"	Coated silk	3 - 22 kHz	4 Ω	100 / 150 W
	GZCT 3000X	102 x 102 mm / 4.02 x 4.02"	90 mm / 3.54"	66 mm / 2.6"	38 mm / 1.5"	Aluminum	4 - 25 kHz	4 Ω	40 / 120 W
	GZCT 3500X (B/S)	98 mm / 3.86"		40 mm / 1.57"	25 mm / 1"	Aluminum	3 - 25 kHz	4 Ω	30 / 100 W
	GZCT 4000X	160 x 120 mm / 6.3 x 4.7"	128 x 88 / 5 x 3.46"	87 mm / 3.43"	44.5 mm / 1.75"	Aluminum	2.5 - 20 kHz	4 Ω	50 / 140 W
	GZCT 5000SPL (-B)	200 x 150 mm / 8 x 5.9"	165 x 130 / 6.5 x 5.12"	142 mm / 5.59"	44.5 mm / 1.75"	Titanium	1.5 - 20 kHz	4 Ω	70 / 180 W
	GZCT 25M-(SPL)	54 mm / 2.13"	48 mm / 1.89"	16 mm / 0.63"	25 mm / 1"	Mylar	3 - 20 kHz	4 Ω	70 / 100 W





Series

Product	Outer Ø	Mounting Ø	Depth	Voice coil Ø	Cone	FS	QTS	VAS	Impedance	Power handling	Recommended amplifier power
GZPW 10SQ	259 mm / 10.20"	236 mm / 9.29"	148 mm / 5.83"	50 mm / 2"	Aluminum	34 Hz	0.58	23.5 L / 0.83 ft <sup>3</sup>	2 x 2 Ω	400 W RMS	400 - 700 W
GZPW 15NEO-SPL	391 mm / 15.39"	358 mm / 14.09"	307 mm / 12.09"	100 mm / 4"	Carbon fiber (mixed)	41.2 Hz	0.19	25.6 L / 0.9 ft <sup>3</sup>	2 x 1 Ω	3000 W RMS	2000 - 10000 W
GZPW 15Xmax	392 mm / 15.43"	358 mm / 14.09"	297 mm / 11.69"	100 mm / 4"	Aluminum	31.6 Hz	0.40	27.0 L / 0.95 ft <sup>3</sup>	2 x 1 Ω	6000 W RMS	4000 - 8000 W
GZNW 38NEO-SPL	391 mm / 15.39"	358 mm / 14.09"	300 mm / 11.81"	75 mm / 3"	Reinforced paper	31.6 Hz	0.18	34.9 L / 1.23 ft <sup>3</sup>	2 x 1 Ω	2500 W RMS / 5000 W SPL	1500 - 5000 W
GZNW 38NEO-EXTREME	391 mm / 15.39"	358 mm / 14.09"	300 mm / 11.81"	75 mm / 3"	Carbon fiber (mixed)	30.3 Hz	0.19	36.2 L / 1.28 ft <sup>3</sup>	2 x 1 Ω	3000 W RMS / 6000 W SPL	2000 - 6000 W
GZNW 12SPL-Xflex	314 mm / 12.36"	284 mm / 11.18"	226 mm / 8.9"	75 mm / 3"	Reinforced paper	33.9 Hz	0.36	27.3 L / 0.96 ft <sup>3</sup>	2 x 1 Ω	2500 W RMS / 4500 W SPL	1500 - 4500 W
GZNW 12Xmax	314 mm / 12.36"	282 mm / 11.1"	250 mm / 9.84"	75 mm / 3"	Aluminum	35.6 Hz	0.61	13.6 L / 0.48 ft <sup>3</sup>	2 x 1 Ω	3000 W RMS	2000 - 4000 W
GZNW 15Xmax	392 mm / 15.43"	358 mm / 14.09"	285 mm / 11.22"	75 mm / 3"	Aluminum	29.5 Hz	0.33	35.7 L / 1.26 ft <sup>3</sup>	2 x 1 Ω	4000 W RMS	3000 - 5000 W
GZNW 30SPL-D1	315 mm / 12.4"	281 mm / 11.06"	237 mm / 9.33"	75 mm / 3"	Reinforced paper	38.6 Hz	0.38	23.6 L / 0.83 ft <sup>3</sup>	2 x 1 Ω	3000 W RMS / 6000 W SPL	2000 - 6000 W
GZNW 30SPL-D2	315 mm / 12.4"	281 mm / 11.06"	237 mm / 9.33"	75 mm / 3"	Reinforced paper	41.3 Hz	0.54	25.0 L / 0.88 ft <sup>3</sup>	2 x 2 Ω	3000 W RMS / 6000 W SPL	2000 - 6000 W
GZNW 38SPL-D1	392 mm / 15.43"	358 mm / 14.09"	269 mm / 10.59"	75 mm / 3"	Reinforced paper	36 Hz	0.52	54 L / 1.91 ft <sup>3</sup>	2 x 1 Ω	3500 W RMS / 7000 W SPL	3000 - 7000 W
GZNW 38SPL-D2	392 mm / 15.43"	358 mm / 14.09"	269 mm / 10.59"	75 mm / 3"	Reinforced paper	36.5 Hz	0.61	63 L / 2.22 ft <sup>3</sup>	2 x 2 Ω	3500 W RMS / 7000 W SPL	3000 - 7000 W
GZUW 8SQ-D2	215 mm / 8.46"	181 mm / 7.13"	108 mm / 4.25"	50 mm / 2"	Reinforced paper	56.9 Hz	0.69	4.8 L / 0.17 ft <sup>3</sup>	2 x 2 Ω	300 W RMS	200 - 400 W
GZUW 10SQ-D2	262 mm / 10.31"	236 mm / 9.29"	148 mm / 5.83"	50 mm / 2"	Reinforced paper	40.2 Hz	0.54	21.8 L / 0.77 ft <sup>3</sup>	2 x 2 Ω	450 W RMS	300 - 600 W
GZUW 12SQ-D2	315 mm / 12.4"	281 mm / 11.06"	150 mm / 5.91"	50 mm / 2"	Reinforced paper	39.8 Hz	0.67	39.4 L / 1.39 ft <sup>3</sup>	2 x 2 Ω	600 W RMS	400 - 800 W
GZHW 16SPL	177 mm / 6.97"	153 mm / 6.02"	110 mm / 4.33"	50 mm / 2"	Reinforced paper	51 Hz	0.46	2.8 L / 0.10 ft <sup>3</sup>	2 x 2 Ω	500 W RMS / 1000 W SPL	400 - 1000 W
GZHW 20XSPL -D1	211 mm / 8.31"	187 mm / 7.36"	143 mm / 5.65"	63 mm / 2.5"	Reinforced paper	38.9 Hz	0.55	5.2 L / 0.18 ft <sup>3</sup>	2 x 1 Ω	700 W RMS / 1500 W SPL	500 - 1500 W
GZHW 20XSPL -D2	211 mm / 8.31"	187 mm / 7.36"	143 mm / 5.65"	63 mm / 2.5"	Reinforced paper	42.4 Hz	0.63	4.3 L / 0.15 ft <sup>3</sup>	2 x 2 Ω	700 W RMS / 1500 W SPL	500 - 1500 W
GZHW 25XSPL-D1	274 mm / 10.79"	238 mm / 9.37"	178 mm / 7"	63 mm / 2.5"	Reinforced paper	40.3 Hz	0.52	9.9 L / 0.35 ft <sup>3</sup>	2 x 1 Ω	1200 W RMS / 2500 W SPL	800 - 2500 W
GZHW 25XSPL-D2	274 mm / 10.79"	238 mm / 9.37"	178 mm / 7"	63 mm / 2.5"	Reinforced paper	40.1 Hz	0.58	12.7 L / 0.45 ft <sup>3</sup>	2 x 2 Ω	1200 W RMS / 2500 W SPL	800 - 2500 W
GZHW 30XSPL-D1	315 mm / 12.4"	284 mm / 11.18"	198 mm / 7.8"	75 mm / 3"	Reinforced paper	39.1 Hz	0.56	17.6 L / 0.62 ft <sup>3</sup>	2 x 1 Ω	1500 W RMS / 3000 W SPL	1000 - 3000 W
GZHW 30XSPL-D2	315 mm / 12.4"	284 mm / 11.18"	198 mm / 7.8"	75 mm / 3"	Reinforced paper	42.4 Hz	0.60	16.9 L / 0.60 ft <sup>3</sup>	2 x 2 Ω	1500 W RMS / 3000 W SPL	1000 - 3000 W
GZHW 38SPL-D1	390 mm / 15.35"	360 mm / 14.17"	231 mm / 9.09"	75 mm / 3"	Reinforced paper	43.4 Hz	0.77	22.2 L / 0.78 ft <sup>3</sup>	2 x 1 Ω	2000 W RMS / 3500 W SPL	1500 - 3500 W
GZHW 38SPL-D2	390 mm / 15.35"	360 mm / 14.17"	231 mm / 9.09"	75 mm / 3"	Reinforced paper	39 Hz	0.65	35 L / 1.24 ft <sup>3</sup>	2 x 2 Ω	2000 W RMS / 3500 W SPL	1500 - 3500 W
GZHW 10SPL-D2 FLAT	274 mm / 10.79"	238 mm / 9.37"	103 mm / 4.06"	63 mm / 2.5"	Sandwich paper	35.5 Hz	0.43	19.7 L / 0.70 ft <sup>3</sup>	2 x 2 Ω	600 W RMS / 1000 W SPL	400 - 1000 W
GZRW 6XSPL	169 mm / 6.65"	147 mm / 5.79"	99 mm / 3.9"	50 mm / 2"	Reinforced paper	49.5 Hz	0.58	2.2 L / 0.08 ft <sup>3</sup>	2 x 2 Ω	350 W RMS / 700 W SPL	300 - 700 W
GZRW 8XSPL	209 mm / 8.23"	182 mm / 7.17"	133 mm / 5.24"	50 mm / 2"	Reinforced paper	45.8 Hz	0.36	7.4 L / 0.26 ft <sup>3</sup>	2 x 2 Ω	500 W RMS / 1000 W SPL	400 - 1000 W
GZRW 10XSPL	257 mm / 10.12"	228 mm / 8.98"	140 mm / 5.51"	63 mm / 2.5"	Reinforced paper	44.3 Hz	0.75	9.0 L / 0.32 ft <sup>3</sup>	2 x 2 Ω	800 W RMS / 1200 W SPL	600 - 1200 W
GZRW 12XSPL	311 mm / 12.24"	288 mm / 11.34"	166 mm / 6.54"	75 mm / 3"	Reinforced paper	31.8 Hz	0.68	27.2 L / 0.96 ft <sup>3</sup>	2 x 2 Ω	1000 W RMS / 1500 W SPL	800 - 1500 W
GZRW 15XSPL	387 mm / 15.24"	358 mm / 14.09"	186 mm / 7.09"	75 mm / 3"	Reinforced paper	34.1 Hz	0.59	63.3 L / 2.24 ft <sup>3</sup>	2 x 2 Ω	1200 W RMS / 1800 W SPL	1000 - 1800 W
GZRW 25-D2	257 mm / 10.12"	228 mm / 8.98"	151 mm / 5.94"	63 mm / 2.5"	Reinforced paper	26.3 Hz	0.54	28.3 L / 1.0 ft <sup>3</sup>	2 x 2 Ω	600 W RMS	300 - 900 W
GZRW 30-D2	311 mm / 12.24"	288 mm / 11.34"	166 mm / 6.54"	75 mm / 3"	Reinforced paper	25.7 Hz	0.50	31.2 L / 1.10 ft <sup>3</sup>	2 x 2 Ω	800 W RMS	600 - 1200 W
GZRW 38-D2	390 mm / 15.35"	359 mm / 14.1"	195 mm / 7.68"	75 mm / 3"	Reinforced paper	22.9 Hz	0.50	110.4 L / 3.90 ft <sup>3</sup>	2 x 2 Ω	1000 W RMS	800 - 1400 W


**Subwoofers**

Series

Product	Outer Ø	Mounting Ø	Depth	Voice coil Ø	Cone	FS	QTS	VAS	Impedance	Power handling	Recommended amplifier power
GZTW 10F (Improved Q)	260 mm / 10.12"	232 mm / 9.13"	88 mm / 3.46"	50 mm / 2"	IMPP	45.1 Hz	0.56	24.1 L / 0.85 ft <sup>3</sup>	2 x 2 Ω	300 W RMS	150 - 450 W
GZTW 12F	313 mm / 12.32"	284 mm / 11.18"	97.5 mm / 3.84"	50 mm / 2"	IMPP	35.1 Hz	0.53	53.2 L / 1.88 ft <sup>3</sup>	2 x 2 Ω	350 W RMS	200 - 500 W
GZIW 10XSPL-D2	257 mm / 10.12"	230 mm / 9.06"	147 mm / 5.79"	63 mm / 2.5"	Reinforced paper with 3D structure	36.2	0.61	15.4 L / 0.54 ft <sup>3</sup>	2 x 2 Ω	500 W RMS / 700 W SPL	400 - 700 W
GZIW 12XSPL-D2	310 mm / 12.2"	285 mm / 11.22"	162 mm / 6.38"	63 mm / 2.5"	Reinforced paper with 3D structure	32.5 Hz	0.73	40.4 L / 1.43 ft <sup>3</sup>	2 x 2 Ω	600 W RMS / 1000 W SPL	500 - 1000 W
GZIW 165	168 mm / 6.6"	147 mm / 5.79"	79 mm / 3.11"	38 mm / 1.5"	HQPP with 3D structure	41.0 Hz	0.41	9.1 L / 0.32 ft <sup>3</sup>	4 Ω	100 W RMS	60 - 150 W
GZIW 200	211 mm / 8.3"	182 mm / 7.17"	100 mm / 3.94"	38 mm / 1.5"	HQPP with 3D structure	32 Hz	0.44	23.6 L / 0.83 ft <sup>3</sup>	4 Ω	150 W RMS	100 - 200 W
GZIW 250	257 mm / 10.12"	230 mm / 9.06"	129 mm / 5.1"	50 mm / 2"	HQPP with 3D structure	27 Hz	0.44	49.3 L / 1.74 ft <sup>3</sup>	4 Ω	250 W RMS	200 - 300 W
GZIW 300	310 mm / 12.2"	287 mm / 11.3"	149 mm / 5.87"	50 mm / 2"	HQPP with 3D structure	30 Hz	0.58	69.3 L / 2.45 ft <sup>3</sup>	4 Ω	350 W RMS	200 - 400 W
GZCS 200BMW-SW	Car specific	Car specific	Car specific	50 mm / 2"	Pressed paper	55.2 Hz	1.05	20.1 L / 0.71 ft <sup>3</sup>	2 Ω	100 WRMS	80 - 160 W
GZCS 200BMW-SW4	Car specific	Car specific	Car specific	50 mm / 2"	Pressed paper	57.9 Hz	0.67	21.3 L / 0.75 ft <sup>3</sup>	4 Ω	100 WRMS	80 - 160 W
GZCS 200MBR-LHD	Car specific	Car specific	Car specific	35.5 mm / 1.4"	Pressed paper	51 Hz	0.79	15.8 L / 0.56 ft <sup>3</sup>	4 Ω	50 WRMS	40 - 100 W
GZCS W-200MB	Car specific	Car specific	Car specific	38 mm / 1.5"	Coated carbon fiber	52 Hz	0.53	16.9 L / 0.60 ft <sup>3</sup>	4 Ω	110 WRMS	50 - 150 W



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