

Mini D Amplifier Series

PRODUCT BROCHURE

Mini D1000
Mono Subwoofer Amplifier



Mini D2000
Mono Subwoofer Amplifier



Mini D2500
Mono Subwoofer Amplifier



Mini D1000.4
4-Channel Full Range Amplifier



Mini D1500.2
2-Channel Full Range Amplifier



Mini D3000.4
4-Channel Full Range Amplifier



EARTHQUAKE
SOUND
Sound That Will Move You.



MINI D MONO SUBWOOFER AMPLIFIERS
ENTERPRISE CLASS PERFORMANCE AT ENTRY LEVEL PRICE

MORE WATTS PER CUBIC INCH THAN ANY AMPLIFIER EVER!

HIGHEST EFFICIENCY (96 PERCENT) OF ANY AMPLIFIER EVER!

GREATER PERFORMANCE PER DOLLAR THAN ANY AMPLIFIER EVER!



First Ever **OMEGA**
controlled amplifier!



First ever **VE-TAT**
accelerated amplifier!



First ever **MARS**
protected car amplifier!

SMALLER - STRONGER - SMARTER

The MiniD is a true next-gen amplifier, coming in with features and a level of design sophistication years beyond the competition. With MiniD, Earthquake once again reasserts absolute dominance in the field of car amplifier technology.



JOSEPH SAHYOUN
PRESIDENT AND CHIEF ENGINEER

To decisively leapfrog the car amplifier industry, would be no easy task. Earthquake's chief engineer, Joseph Sahyoun, descended into the Earthquake research laboratories determined to crack the code to the universe and design the car amplifier of the future!

It was clear that the amplifiers of the future would have to be smaller, stronger and smarter. However breaking through such technical barriers on the way would require considerable innovation. To decrease the size of an amplifier its necessary to increase efficiency. This requires intelligence and control. In the pursuit of these goals several new technologies were developed.



OMEGA (Optical Multilevel Empirically Guided Aggregation) is the highly evolved brain and central nervous system of the MiniD amplifier.

Traditional amplifiers are comprised of many circuits, operating in blind autonomy. OMEGA adds intelligence and operational awareness to these functions thus transforming autonomy into unity.

Omega is tapped into every circuit and transmits instructions in the optical plane with a speed more than 1500 times that of the fastest signal passed through the amplifier. This enables constant optimization of power generation and amplification.

The best example of efficiency gain due to OMEGA is the power supply and amplification section, previously operating without coordination. With OMEGA they operate in continued adaptive synchronization, almost doubling their output. In addition to adaptive synchronization OMEGA utilizes an optical multilevel feedback path operating in the digital domain - providing real time targeting data - enabling OMEGA to digitally steer voltage and current with absolute precision.



VE-TAT (Velocity Enhancing Transistor Augmentative Technology) is an enhanced transistor dead-time controller.

Where OMEGA is a macro overlay system - VE-TAT works at the component level.

A critical area for efficiency in a Class D amplifier is the speed and precision by which the transistors can be opened and closed. VE-TAT dramatically increases transistor velocity, thus eliminating dead-time losses and increasing efficiency. The addition of VE-TAT makes the Earthquake Gen 3 Enhanced Class D output topology the most efficient Class D technology on the planet today.



MARS (Magnetically Actuated Reanimation System) is a new type of protection system that enables the use of all amplifier power resources without compromising the survivability of the amplifier under catastrophic conditions.

Typical protection systems rely on fuses or relays that complicate the signal path thus degrading audio quality. MARS is different as it is not in the signal path, but works by sensing the electromagnetic field of the conducting wires.

Like OMEGA the internal communication of MARS is optical rather than electrical. MARS does not use any relays or other damping-factor reducing mechanical switches that can wear out or fail over time. Instead, a specially designed circuit instantly shuts off the output drive.

In the event a short-circuit activates the MARS protection system, it continuously re-scans the output every 10 seconds. Normal operation automatically resumes as soon as the short-circuit condition is removed.

MiniD Mono Subwoofer Amplifier Series

UNPRECEDENTED PLACEMENT POSSIBILITIES

Reclaim your trunk space! The new micro form-factor of the MiniD opens up a new realm of placement possibilities - Under car seats, inside door or chassis panels. It is no longer necessary to stuff your trunk with amplifiers to get great sound.

Mini D1000



Mini D2000



Mini D2500



REAL WORLD BENEFITS

The real world benefits of these technologies are significant. In comparison to a traditional Class AB amplifier with an efficiency of 45 percent, the MiniD at 96 percent will use less than half the power playing at the same volume. Or it will play 3 db louder with the same amount of power. 3 DB is the same as adding an extra woofer to the system. With MiniD even a staunch system will be able to operate with just the stock battery and alternator. As MiniD is very competitively priced against inferior rivals - all this extra power is basically FREE.



FEATURES

- Clip Suppression technology. The MiniD will avoid hard clipping, so in the event of excessive input the sound will not get harsh.
- Bridge-Link feature. Two MiniD amplifiers (of same model) can be linked together for Triple the output of a single unit.
- Fan free operation. The stellar efficiency of the MiniD negates the need for noisy fans. Even when driven continuously 2 db into clip the MiniD will not overheat.



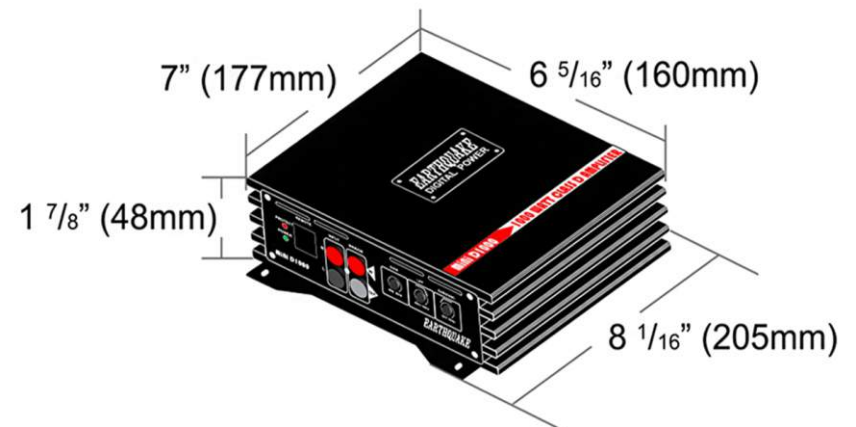
Mini D1000 Mono Subwoofer Amplifier

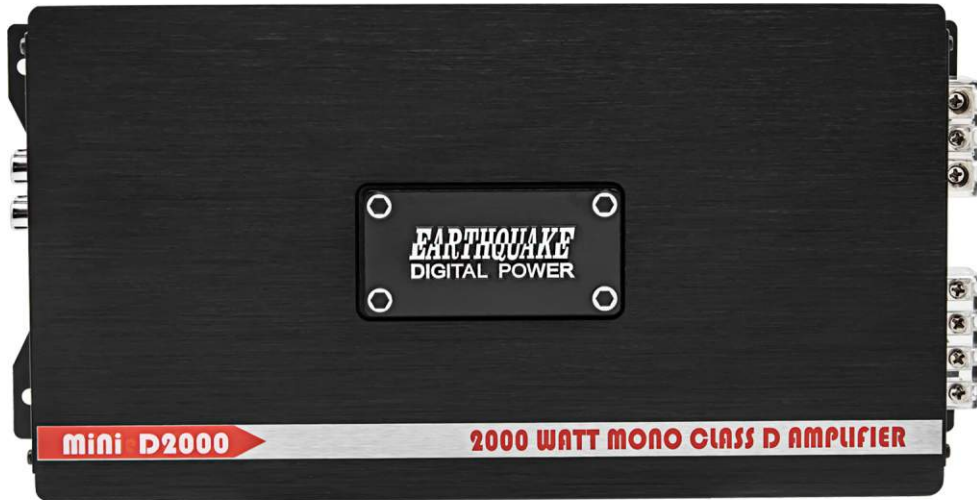
SPECIFICATIONS

Sold and priced by piece.

- Model: MiNi-D1000
- EAN: 0 168975910684
- 0 - 12dB (30-80Hz) Bass Boost - available on the D2000 and D2500 models
- Variable Subsonic Filter
- 40 - 180Hz LPF (Low Pass Filter)
- Gain Control
- Remote Gain Level Control
- Channels: 1 (MONO)
- Class: Digital Class D
- Max Power: 1000 Watts
- RMS Power 1-Ohm: 600 Watts
- RMS Power 2-Ohm: 360 Watts
- RMS Power 4-Ohm: 180 Watts

DIMENSIONS





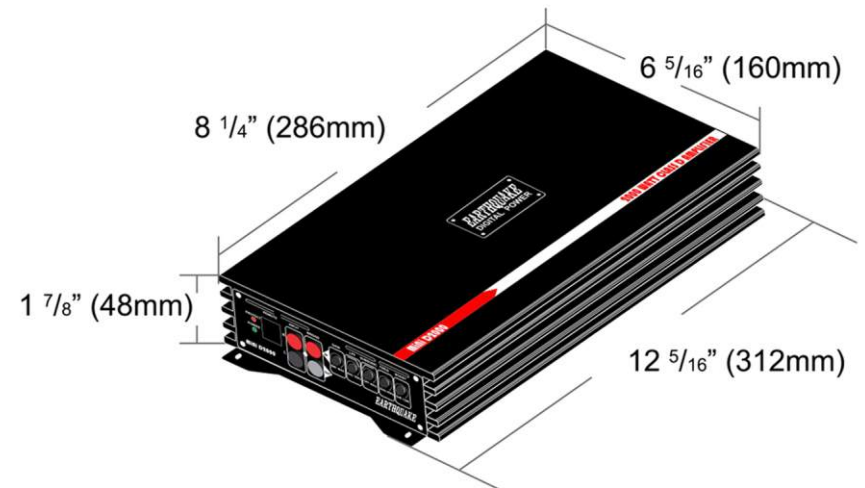
Mini **D2000** Mono Subwoofer Amplifier

SPECIFICATIONS

Sold and priced by piece.

- **Model: MiNi-D2000**
- **EAN: 0-168975-910691**
- 0 - 12dB (30-80Hz) Bass Boost - available on the D2000 and D2500 models
- Variable Subsonic Filter
- 40 - 180Hz LPF (Low Pass Filter)
- Remote Gain Level Control
- Remote Sub Level
- Channels: 1 (MONO)
- Class: Digital Class D
- Max Power: 2000 Watts
- RMS Power 1-Ohm: 1200 Watts
- RMS Power 2-Ohm: 1000 Watts
- RMS Power 4-Ohm: 650 Watts

DIMENSIONS





Mini **D2500** Mono Subwoofer Amplifier

SPECIFICATIONS

Sold and priced by piece.

- **Model:** MiNi-D2500
- **EAN:** 0-168975-910707
- 0 - 12dB (30-80Hz) Bass Boost - available on the D2000 and D2500 models
- Variable Subsonic Filter
- 40 - 180Hz LPF (Low Pass Filter)
- Remote Gain Level Control
- Remote Sub Level
- Channels: 1 (MONO)
- Class: Digital Class D
- Max Power: 2500 Watts
- RMS Power 1-Ohm: 2000 Watts
- RMS Power 2-Ohm: 1800 Watts
- RMS Power 4-Ohm: 850 Watts

DIMENSIONS



THE MINI-D1000.4

ENTERPRISE CLASS PERFORMANCE AT ENTRY LEVEL PRICE



VE-TAT
Accelerated Amplifier



MARS
Protected Amplifier



POWER CHIP
Technology

THE MINI-D1500.2 & MINI-D3000.4

ENTERPRISE CLASS PERFORMANCE AT ENTRY LEVEL PRICE

VE-TAT
Accelerated Amplifier



MARS
Protected Amplifier

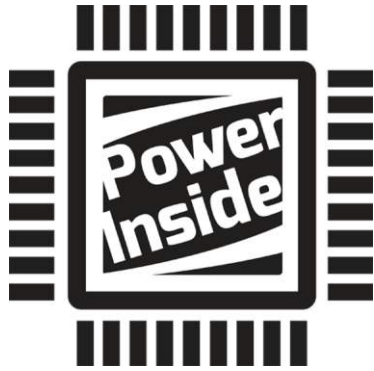


OMEGA
Controlled Amplifier



INTRODUCING THE MINI-D1000.4

As the first 4-Channel Full-Range amplifier of the MiniD series, the Mini-D1000.4 is blazing its own trail. It does so by cramming 4 full channels of robust cool running power into a micro chassis the size of a portable hard drive. This level of power density is just now possible thanks to the new Power Chip technology from Earthquake.



Power Chip Technology

The next frontier, in the race to make the smallest and most powerful amplifiers, is Power Chips. A Power Chip is a chip like a computer processor that has all the functions of a normal discrete component output stage. Earthquake is at the forefront of this battle with the introduction of the Hybrid Power Chip amplification technology featured in the Mini-D1000.4 amplifier.

It combines the output Power Chip itself with a wideband discrete switch mode power supply connected through an intelligent communications bridge. This best of both worlds solution has Power Chip compactness and discrete transistor resiliency.



VE-TAT Enhanced Power Supply

VE-TAT (Velocity Enhancing Transistor Augmentative Technology) is an enhanced transistor dead-time controller. VE-TAT is a component level technology.

A critical area for efficiency is the speed and precision by which the transistors can be opened and closed. VE-TAT dramatically increases transistor velocity, thus eliminating dead-time losses and increasing efficiency. The addition of VE-TAT makes the Earthquake SR-SMPS switch mode power supply one of the most efficient on the planet today.



MARS (Magnetically Actuated Reanimation System) is a new type of protection system that enables the use of all amplifier power resources without compromising the survivability of the amplifier under catastrophic conditions. Typical protection systems rely on fuses or relays that complicate the signal path thus degrading audio quality.

MARS is different as it is not in the signal path, but works by sensing the electromagnetic field of the conducting wires.

MARS does not use any relays or other damping-factor reducing mechanical switches that can wear out or fail over time. Instead, a specially designed circuit instantly shuts off the output drive. In the event a short-circuit activates the MARS protection system, it continuously re-scans the output every 10 seconds. Normal operation automatically resumes as soon as the short-circuit condition is removed.

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Mini D1000.4

4-Channel Full Range Amplifier

FEATURES

- Clip Suppression technology. The MiniD will avoid hard clipping, so in the event of excessive input the sound will not get harsh.
- Fan free operation. The stellar efficiency of the MiniD negates the need for noisy fans. Even when driven continuously 2db into clip the MiniD will not overheat.
- User selectable high and low pass crossovers with variable cross over frequency
- Boost function, enables up to 12 dB boost of the chosen crossover frequency

SPECIFICATIONS

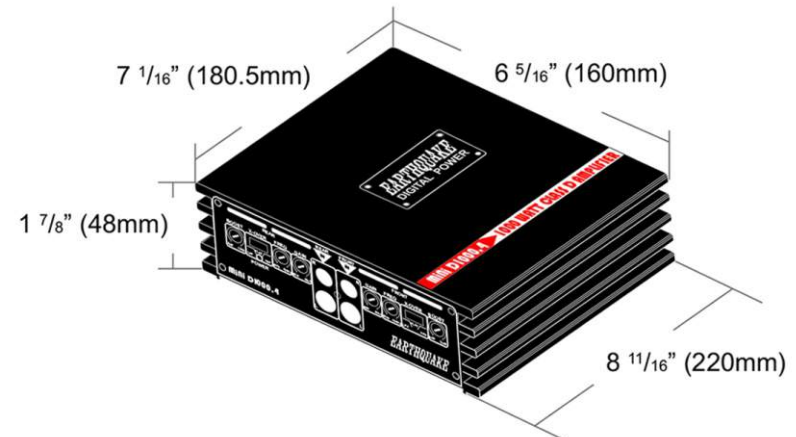
Model: MiNi-D1000.4
 EAN: 0 168975910912

Channels: 4
 Class: Digital Class D
 Max Power: 1000 Watts
 RMS Power 4-Ohm: 2 x 190 Watts
 Bridged
 RMS Power 2-Ohm: 4 X 90 Watts
 RMS Power 4-Ohm: 4 X 65 Watts

- THD+N less than 0.01%
- Channel separation better than 80dB
- Crossover frequency spectrum 40-400 Hz
- SN ratio beyond 110 dB
- Fuse rating 2 x 20A(included)

*Sold and priced by piece.

DIMENSIONS



INTRODUCING THE MINI-D1500.2 and MINI-D3000.4

As the first two channel full-range amplifier of the MiniD series, the MiNi-D1500.2 has a lot to live up to. While in development its subwoofer-amp brethren has continued their successful tour of duty setting records and striking fear deep into the heart of the competition. The MiNi-D1500.2 continues this legacy of excellence by being the perfect combination of power and finesse. Delivering enough power to satisfy even the hungriest full-range speakers all while remaining incredibly composed. The audiophile attributes are so refined that a panel of audio experts could not pick it out against esoteric home audio amplifiers.

The MiNi-D3000.4 is essentially two Mini-D1500.2 amplifiers fused together in one chassis. Resulting in the most power-dense 4 channel amplifier on the market today. With 180 watts RMS to each of its 4 channels the MiNi-D3000.4 D has enough power to satisfy even the hungriest speakers all while remaining incredibly composed. The audiophile attributes are so refined that a panel of audio experts could not pick it out against esoteric home audio amplifiers.



JOSEPH SAHYOUN
PRESIDENT AND CHIEF ENGINEER

SMALLER - STRONGER - SMARTER

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It was clear that the amplifiers of the future would be smaller, stronger and smarter. However breaking through the technical barriers on the way would require considerable innovation. To decrease the size of an amplifier its necessary to increase efficiency. This requires intelligence and control. In the pursuit of these goals several new technologies were developed.



OMEGA (Optical Multilevel Empirically Guided Aggregation) is the highly evolved brain and central nervous system of the MiniD amplifier.

Traditional amplifiers are comprised of many circuits, operating in blind autonomy. OMEGA adds intelligence and operational awareness to these functions- transforming autonomy into unity.

OMEGA is tapped into every circuit and transmits instructions in the optical plane with a speed of 500khz, making it deadly accurate. This enables constant optimization of power generation and amplification. The best example of efficiency gain due to OMEGA is the power supply and amplification section, previously operating without coordination. With OMEGA they operate in continued adaptive synchronization, almost doubling their output. In addition to adaptive synchronization OMEGA utilizes an optical multilevel feedback path operating in the digital domain - providing real time targeting data, enabling OMEGA to digitally steer voltage and current with absolute precision.



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MiniD Full-Range Amplifier Series

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REAL-WORLD BENEFITS

The real world benefits of these technologies are significant. In comparison to a traditional Class AB amplifier with an efficiency of 45 percent, the MiniD at 96 percent will use less than half the power playing at the same volume. Or it will play 3 db louder with the same amount of power. 3 DB is the same as adding an extra woofer to the system. With MiniD even a staunch system will be able to operate with just the stock battery and alternator. As MiniD is very competitively priced against inferior rivals - all this extra power is basically FREE.

FEATURES

- **Clip Suppression Technology.** The Mini-D will avoid hard clipping, so in the event of excessive input the sound will not get harsh.
- **Fan free operation.** The stellar efficiency of the MiniD negates the need for noisy fans. Even when driven continuously 2 db into clip the MiniD will not overheat.
- **Variable Subsonic filter option** to protect speakers from unwanted low frequency content.
- **Auto ON signal** sensing switch. Amplifier can wake up on signal and fall asleep when not in use.
- **RCA line** outputs for daisy chaining multiple amplifiers.
- **User selectable high & low pass crossovers** with variable crossover frequency.
- **MARS status LED.** Lights up when MARS has detected an anomaly and when the unit is initially powered up and going through self analyzing mode.





Mini D1500.2 2-Channel Full Range Amplifier

SPECIFICATIONS

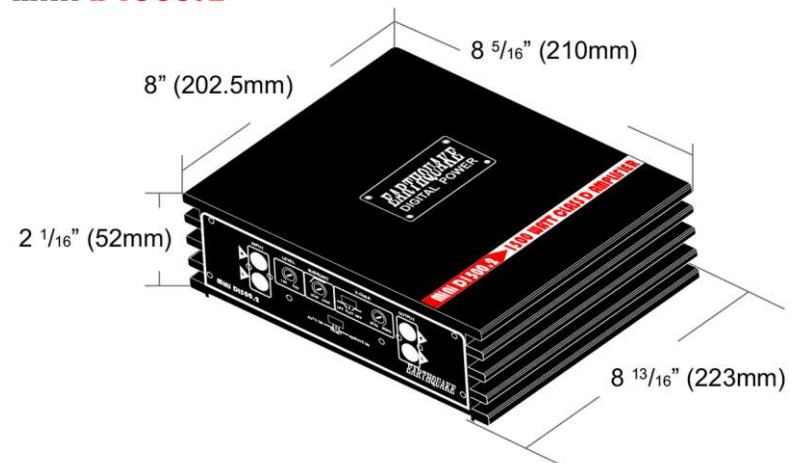
- Model: MiNi-D1500.2
- EAN: 0 168975910905
- Channels: 2 (STEREO)
- Class: Digital Class D
- Max Power: 1500 Watts
- RMS Power 4-Ohm: 360 Watts Bridged
- RMS Power 2-Ohm: 2 X 180 Watts
- RMS Power 4-Ohm: 2 X 130 Watts
- THD+N less than 0.01%
- Channel separation better than 80dB
- Crossover frequency spectrum 20-500 Hz
- Subsonic filter crossover frequency spectrum 15-30 Hz
- SN ratio beyond 110 dB
- Fuse rating 2 x 30A (included)

*Sold and priced by piece.



DIMENSIONS

Mini D1500.2





Mini D3000.4

4-Channel Full Range Amplifier

SPECIFICATIONS

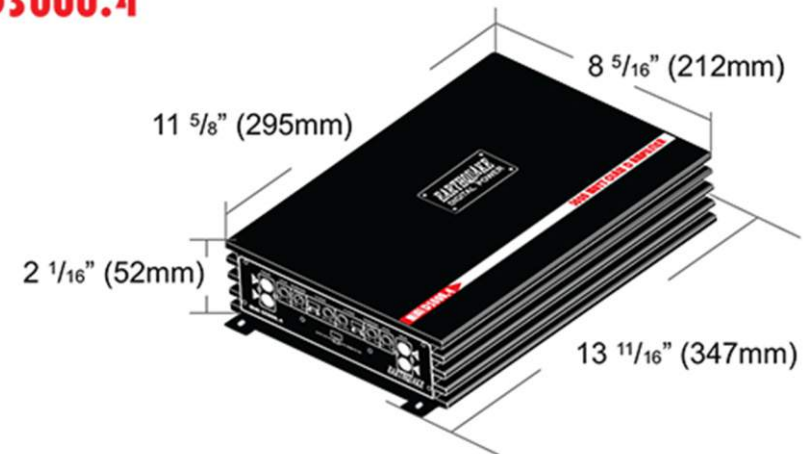
- Model: MiNi-D3000.4
- EAN: 0 168975911070
- Channels: 4 (STEREO)
- Class: Digital Class D
- Max Power: 3000 Watts
- RMS Power 4-Ohm: 4 x 130 WRMS
- RMS Power 2-Ohm: 4 X 180 WRMS
- RMS Power - Bridged : 2 x 360 WRMS @ 4-Ohm
- THD+N: .01%
- Channel Separation: 90dB
- Crossover Frequencies: 20-500Hz
- Bass Boost Gain Level: N/A
- Subsonic Filter: 15-30Hz
- Signal-to-Noise Ratio: >110dB
- Fuse Rating : 3 x 35A (included)

*Sold and priced by piece.



DIMENSIONS

Mini D3000.4





Sound That Will *Move* You.

Earthquake Sound reserves the right to amend the details of the specifications without notice.

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