

ZIZTEL SR2000

CLASS G HIGH INTEGRITY DISTRIBUTION AMPLIFIER

DS-105 Issue 03



Thank you for your interest in Ziztel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in the Hazardous Oil, Gas and Petrochemical industries.

The Ziztel SR2000 sub rack distribution amplifier is a compact space saving 3U standard 19 inch industrial rack mount enclosure designed to carry up to nine (9) ZEST 250A-E, 350A-E high integrity mission critical CLASS G PAGA amplifier modules.

The unit supports dedicated hot standby amplifier assignment in N + 1 execution.

ZIZTEL SR2000- FEATURES

- *Nine high integrity amplifier modules in only 3U rack space.*
 - *Touch screen operator interface provides extensive access to the amplifier and associated loudspeaker networks.*
 - *Fully supervised, fully configurable.*
 - *250 & 350 Watt modular amplifiers “blocks”.*
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The SR2000 can be cascaded to allow multiple amplifier sub racks to deliver extremely high power density in the smallest practical rack footprint area. A single SR2000 can provide an ultimate of 2000 Watts using 250A-E and 2800 using 350A-E with possible auto hot standby available for any online amplifier slot 1 to 8. The unit is equipped with a diagnostic touch screen engineer display / access panel which incorporates status supervisory and broadcast amplifier management test facilities including test tick tone initiation which enables the engineer to broadcast a low level audible signal envelope to target loudspeaker zones.



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250A - E AMPLIFIER:

250A-E assignment is modular and the unit can be equipped with single multiple or fully populated as required enabling simple future expansion. Each amplifier module is discreetly served and configuration eliminates any possible inter amplifier common mode failure. Dedicated power supply inputs are assigned for each 250A-E module and separate input / outputs remove inter amplifier dependence enabling specification of the SR2000 for safety critical applications.

A 350A-E module extends power capability to 350Watts

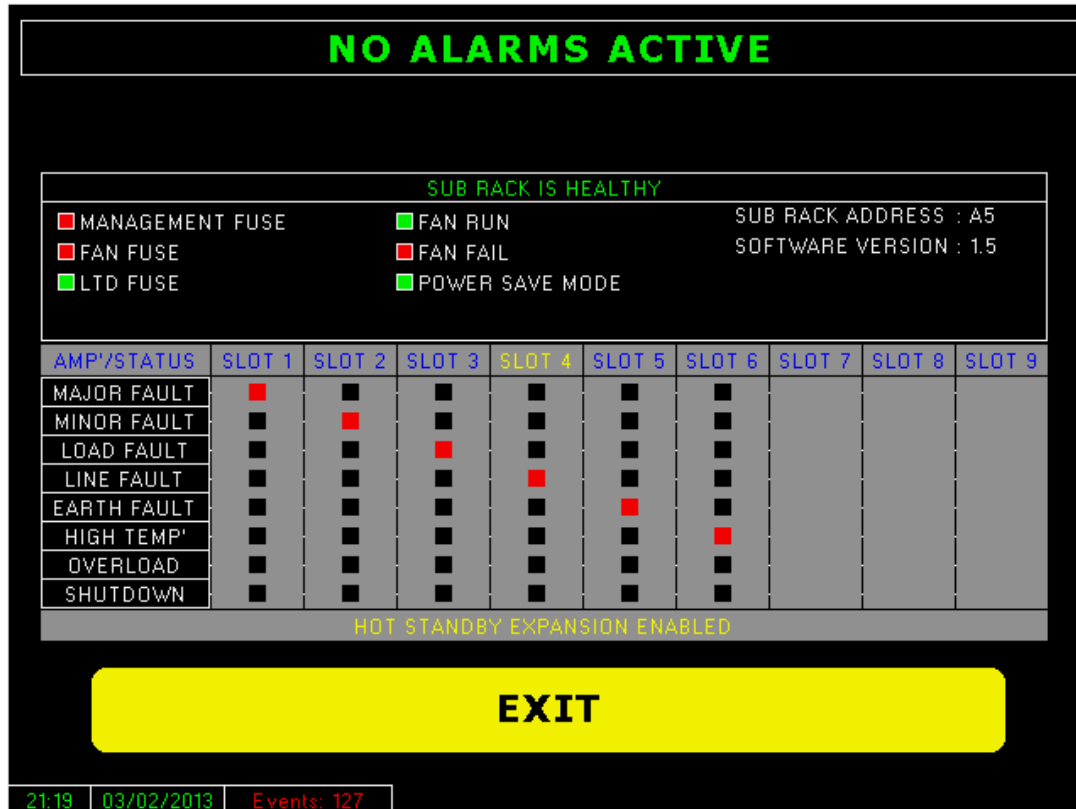
POWER SUPPLY:

SR2000 is attached to the host equipment by plug / socket connectivity enabling rapid deployment and simple service, there are no hard wired connections and all terminations can be hot plugged.

The unit delivers exceedingly high power conversion efficiency drastically reducing unnecessary heat emission and greatly improving power consumption from external UPS supply panels without resorting to a pulse width modulated design.

TOUCH SCREEN DISPLAY:

The touch screen display provides comprehensive diagnostic / operational status including critical path security from the amplifier input to loudspeaker end of line. SR2000 can be equipped with Ziztel ZADS addressable speaker system enabling detail check of individual loudspeaker voice coils and possibility to assign power tap settings remotely.



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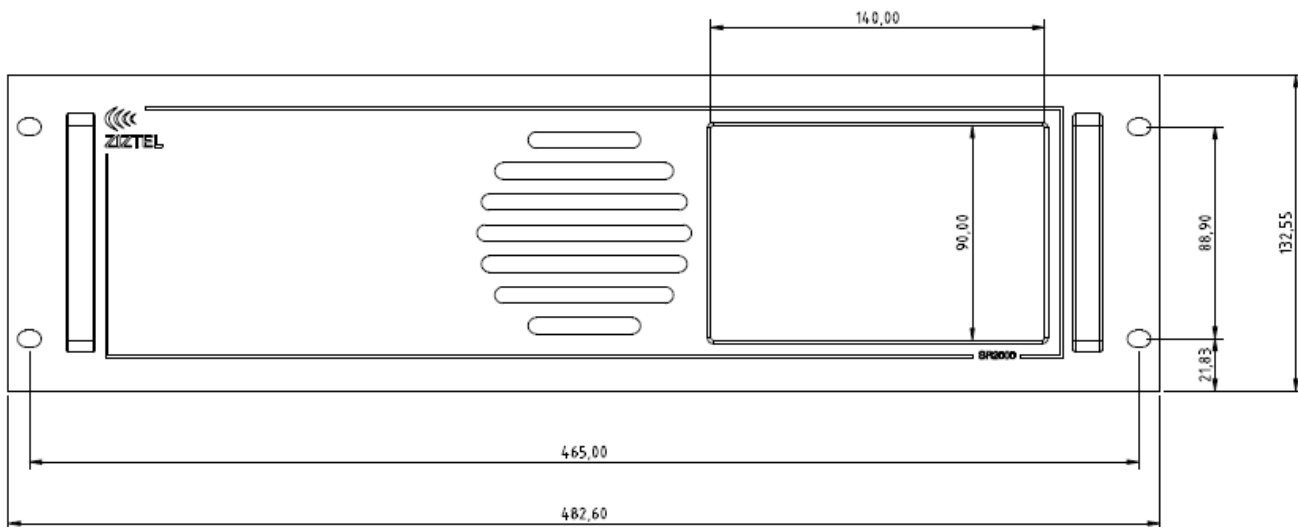
SR2000 MONITORING SUB SYSTEM:

The SR2000 incorporates a sophisticated automatic monitoring sub system which checks connected loudspeaker lines on a 'diversity ' basis i.e. at both 100Hz and 22KHz and performs both voltage [end of line] and current monitoring [load supervision] to enable reliable detection of loudspeaker network load changes of +/-20%. Loudspeaker lines can be arranged on a star wired / radial basis or self-healing open circuit fault tolerant loops.



***Please Note:** Frequency response is arranged to:-

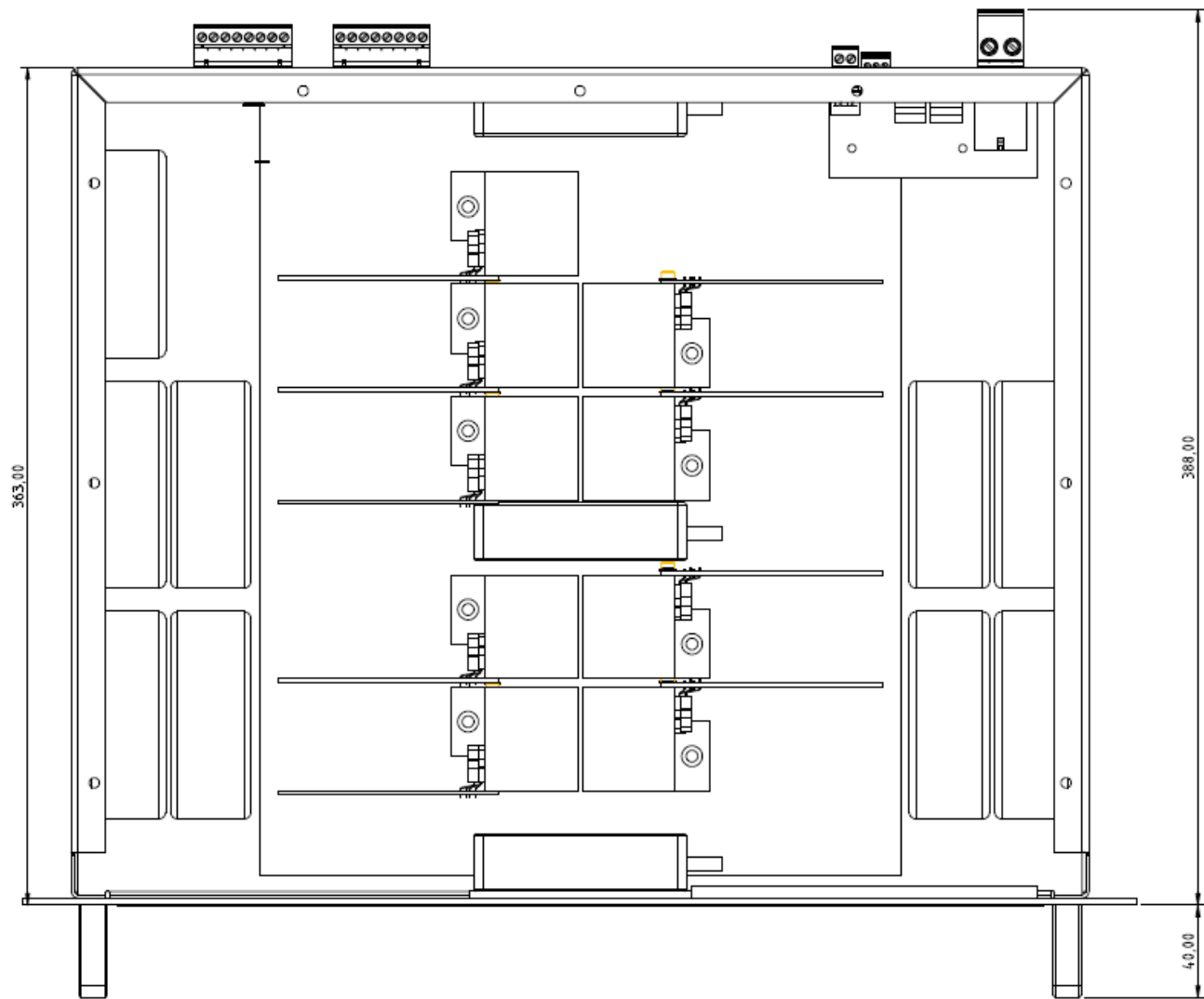
- Eliminate potentially damaging low frequency drive to industrial loudspeakers
- Extends high frequency response to allow supersonic line testing.



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Technical Specification

Supply input	48 VDC from ZAPSU-02, ZAPSU-01 or Ziztel compact AC to DC convertor block.
No of Amplifiers	Up to Nine 250A Modules
Line Output	8 x 100 Volt line industry standard (70 V line to order)
Output Power 250A-E	250 Watts RMS per 250A-E module
Output Power 350A-E	350 Watts RMS per 350A-E module.
Frequency response	Tailored -3dB points 200Hz to 25 KHz
Distortion	Better than 1% THD
Regulation	Within 1 dB
Protection	Both V and I monitoring short / open / over load / earth fault line proof
Weight fully populated	8Kg
Dimensions	3U 19 inch rack mount 133 x 482 x 365mm
Location	Safe area
Ambient Temperature	-20 to +50 C
Humidity	Up to 80% non condensing
Shock and Vibration	Up to 1 g in any direction
Material	Sheet steel and extruded alloy
Connections	Pheonix male / female receptacles, RJ45 sockets
Efficiency	Better than 85 %

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