

350ASR

AUDIO AMPLIFIER SUB-RACK

DS-012 Issue 05



Thank you for your interest in Zitel - 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 Zitel 350ASR sub-rack can house up to nine x 350A 3U high amplifier modules in a single 3 unit high 19 inch standard enclosure.

The 350ASR sub-rack carries on board microsystem to recover data from each 350A amplifier module enabling remote display of power amplifier / loudspeaker network status on a Zitel GUI.

(Individual amplifier modules can be accessed via an internet browser enabling the engineer to supervise PAGA performance on a worldwide basis)

350ASR HIGH INTEGRITY AUDIO AMPLIFIER SUB-RACK

Over 3000 Watts of amplification in a single 3U sub rack enclosure - *Space saving, smaller rack foot print*

Up to two hot standby amplifiers – *N+1 redundant architectures*

Plug/socket connected – No hardwiring – *Rapid fault finding*

Connection to Zitel management GUI – *Remote diagnostic capability*

The 350ASR is a 3U standard 19 inch rack mount enclosure designed to carry up to nine 350A amplifier modules. The Zitel amplifier module is extremely compact and exceedingly high power density is possible in the smallest practical rack footprint area. A single 350ASR can provide an ultimate of 3,150 Watts with possible auto hot standby available for any online amplifier module. The sub-rack unit allows amplifiers to be hot pluggable enabling installation and removal without requirement for supply isolation. Slot nine is assigned for the use of an N + 1 hot standby amplifier, for high criticality applications a second hot standby amplifier can be configured in slot four. Additional sub-racks can be cascaded for larger systems that require more amplification than can fit in to a single sub-rack. It is possible to configure a hot standby amplifier to provide no break service to a suspect amplifier slot residing outside the host hot standby amplifier subrack host if required. The unit is equipped with a diagnostic display panel which incorporates an engineer test facility. Facilities include amplifier test tick tone initiation which enables the



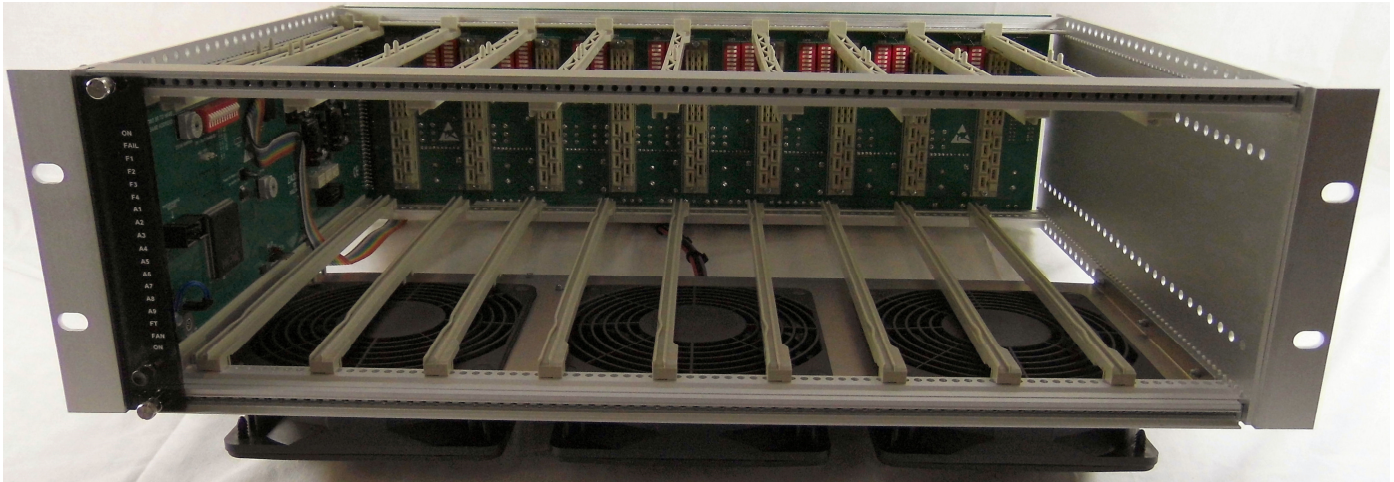
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engineer to broadcast a low level audible tone envelope to target loudspeaker zones.

The 350ASR is fitted with military pattern integral fans to enable efficient amplifier cooling without recourse to costly separate cubicle fan assignment.



| Electrical | |
|----------------------|--|
| Supply input voltage | 4 x 48 Volts DC (Slot 1-4) 4 x 48 Volts DC (Slot 5-8) 1 x 48 Volts DC (Slot 9) |
| Voltage tolerance | 43VDC – 56VDC |
| Audio Input | 9 x Base-band audio channels |
| Control Input/output | Supervision, LTD (Line Termination Device) Management Control |
| Output | 9 x 70/100 Volt Line |

| Mechanical | |
|-------------------------------|--------------------------|
| Height | 3U excluding fans 133.5m |
| Width | 19 inches, 482mm |
| Weight | 1.5Kg |
| Weight fully loaded | 18Kg |
| Temperature range operational | -40 °C to +70 °C |
| Location | Internal / Safe area |
| Material | Anodised Aluminium |
| Colour | Natural |

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