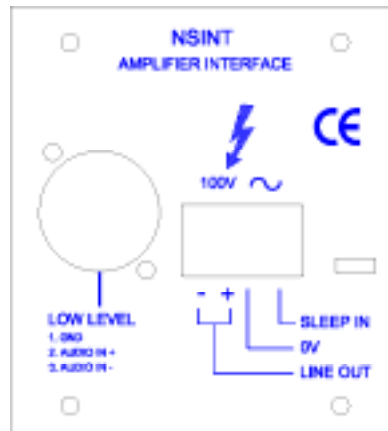


Product Description



The NSINT is an amplifier interface card for use with the M100, M200 and M400 Class D Amplifiers in a V400 Amplifier Mainframe for Public Address and Voice Alarm applications.

This 'passive' interface card acts as a conduit for amplifier audio and control signals to and from the rear panel connectors and carries EMC protection components. It does not provide surveillance of the loudspeaker circuit.

For further details please refer to the Amplifier Mainframe Handbook and the Application Solutions PA/VA Systems Design Handbook.

CE Declaration



This equipment is designed and manufactured to conform to the following EC standards:

EMC	EN 55103-1 Environment E1, EN 55103-2 Environment E5
Safety	EN 60065

Failure to use the equipment in the manner described in the product literature will invalidate the conformity. A 'Declaration of Conformity' statement to the above standards and a list of auxiliary equipment used for compliance verification is available on request.

Safety and Precautions

ELECTRIC SHOCK SAFETY

This product contains wiring that is energised to 100V rms with audio signals at up to 20kHz. Terminals marked with the ⚡ symbol are hazardous and the external wiring connected to these terminals requires installation by an instructed person.

It is important to ensure fixing screws are fully tightened so that the interface panel is electrically bonded to the mainframe chassis. If it is not correctly bonded to the chassis, dangerous voltages can be present on the panel.

ENVIRONMENTAL PRECAUTIONS

Always ensure adequate ventilation is provided for the equipment and do not obstruct ventilation holes. The temperature and humidity ranges shown in the specifications for this product must not be exceeded. This equipment must not be installed in an area that is subject to a corrosive atmosphere, excessive moisture or may allow water or other liquids to come into contact with the unit or its external connections.

ESD PRECAUTIONS

This product connects to static-sensitive devices. Observe ESD precautions when handling this product.

WARNING

Ensure that the total speaker load does not exceed the rating of the amplifier. Check loading with an impedance meter if necessary.

Ensure that the speaker line is not shorted to earth. This can be checked with a multimeter on a resistance range.

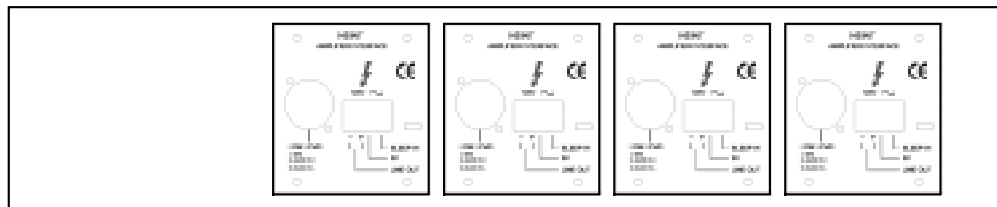
To configure and install this product you will need;

- This interface card
- Corresponding amplifier module (M100, M200 or M400, see Systems Design Handbook for details of amplifier choice)
- A V400 Amplifier Mainframe
- A mainframe front panel to suit the amplifier configuration
- A small flat-bladed screwdriver
- A small posidrive screwdriver
- A pair of wire cutters/strippers
- A soldering iron
- A 19"-standard rack wired with AC and/or DC power supply, signal, and control wiring (see Systems Design Handbook for details)

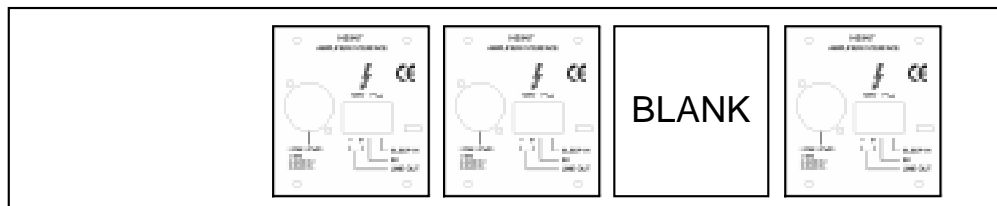
Recommended installation procedure

Insert the interface card into the rear of the V400 amplifier mainframe, ensuring it is in the correct position to mate with its amplifier module, and push it home. Fit blank panels to any unused rear panel spaces.

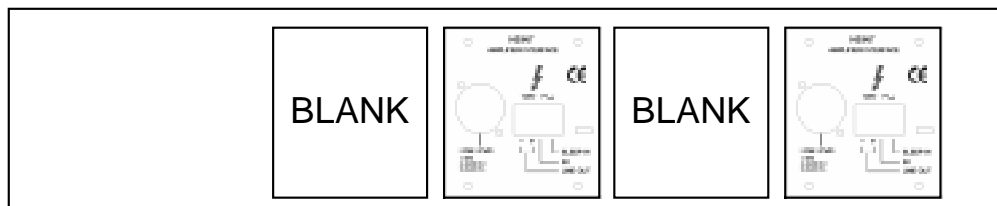
4 x 100W



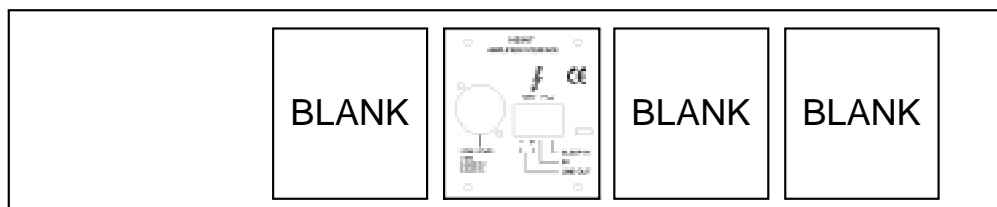
2 x 100W and
1 x 200W



2 x 200W



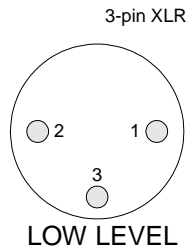
1 x 400W



CAUTION

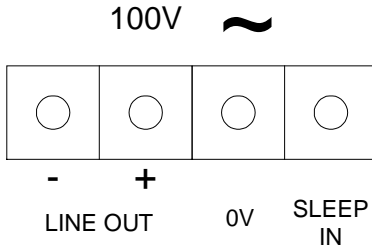
Install fixing screws to bond the interface panel to the amplifier mainframe chassis and fully tighten the screws. It is important to make sure the screws are fully tightened to prevent dangerous voltages being present on the panel.

Connections



1	Signal common	Cable screen (see Note below)
2	Audio I/P +	Balanced audio input at 0dBu
3	Audio I/P -	Balanced audio input at 0dBu

Note: ALWAYS use screened cables for the input connections. For best EMC performance, always connect cable screen to the back shell of the connector.



LINE OUT	100V line audio output to loudspeaker circuit.
SLEEP IN	Control input for activation of amplifier "Sleep" function (requiring contact closure to 0V).
0V	Return path for SLEEP IN control input.

Cables for the amplifier LINE OUT connections should be adequately rated for the expected currents, and of appropriate fire-protection in VA applications. Using too thin a cable can cause a safety hazard and will give excessive voltage drop and loss of power. Always route output cabling away from input cabling to reduce the risk of instability (feedback from output to input).

Specifications

Current consumption	None
Maximum amplifier output power	400W
Dimensions (H x W x D)	87mm x 79mm x 130mm
Weight	0.25kg
Temperature Range (storage and operating)	-5°C to +50°C
Humidity Range	0% to 93% Non Condensing

Manufacturer

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This equipment is designed and manufactured in the UK by Application Solutions Ltd to a quality system certified to the internationally recognised quality standard: BS EN ISO 9001: 1994

Certificate number: 96-LON-AQ-041

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