



Signature AoIP44

Dante Network Audio Interface



The AoIP44 is an economical subrack designed to interface balanced analogue audio circuits to and from a network audio system featuring Dante. It provides 4 audio inputs to the network and also 4 audio outputs from the network on balanced 3 pin XLRs.

The AoIP44 can be used as a simple low cost audio I/O break out unit on a large Dante audio network where it can be integrated extremely easily using the Dante Controller and is fully compatible with any manufacturers Dante equipment.

The AoIP44 can also be used in very simple audio over IP scenarios where 4 bi-directional audio circuits are needed to be distributed across a buildings network infrastructure, in which

case 2 x AoIP44 units can be used connected together across the network. The AoIP44 is equally suited for high integrity broadcast purposes, intercom, just simple paging facilities or simple distribution of audio.

Being part of our Signature Range, the AoIP44 comes as standard with removeable rack ears (to allow front or rear mounting in 19" racks), mounting holes to allow under desk mounting (the holes are equally suited for screwing the unit into odd places!) and an optional external DC power supply for applications requiring redundant power supplies. It is housed in an all anodised aluminium chassis.







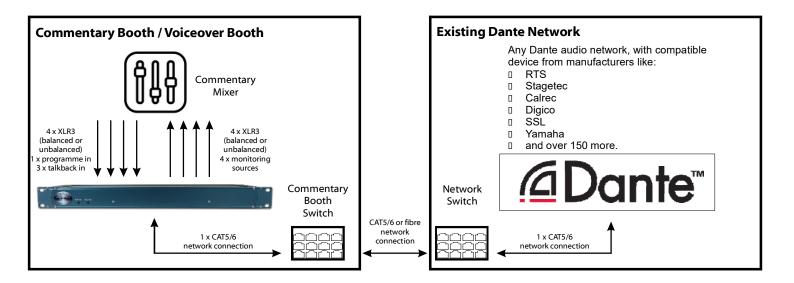
Signature AoIP44

4 x 4 Network Audio Interface

EXAMPLE APPLICATION

Interface To Existing Dante Network

Commentary Unit Connection To An Existing Dante Network



There are over 150 manufacturers that design Dante compatible equipment. In this example, the broadcaster has an established Dante network. This is most likely to be an audio console, or an intercom system.

The broadcaster needs to expand the network by adding an existing commentary booth / voice over position. Using the AoIP44, the commentary position can be added to the existing Dante network very cost effectively.

The AoIP44 is located in the commentary booth, and connected into the broadcast network via a single CAT5/6 cable.

The Glensound GS-CU001B is the most widely used commentary unit by broadcasters. It provides a programme mix output (direct outputs also available), and has 3 talkback outputs. These connect to the inputs of the AoIP44 via XLR connections. The AoIP44 outputs connect to the headphone monitoring inputs on the GS-CU001B via XLR. This allows the commentators to hear 4 channels. These are typically the programme audio, and talkback returns.

The audio routing can be configured via the Dante Controller software. Simply run Dante Controller on any PC connected to the network. All available sources and destinations will be shown on the AoIP44, and all other Dante compatible devices on the network. Click the check boxes to route the audio in the desired directions, and the system is now ready to be used.

Audio routing only needs to be configured by Dante Controller on the first time the AoIP44 is connected to the network as all routes are stored locally on the device.







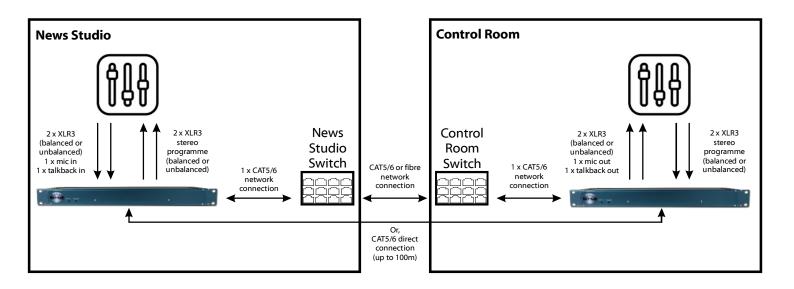
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EXAMPLE APPLICATION

Interface To News/Voice Over Studio

Programme Send With Stereo Return Monitoring



A small voice over studio is used is used for production of voice recording and by the newsreaders. This is a separate studio to the main studios, and separate from the control room.

As there are only a few channels to transmit between the locations the AoIP44 is a cost effective option for connecting the bi-directional audio.

The mixer in the voice over studio only has 2 outputs: the direct output of the microphone, and a separate talkback channel. These connect to the local AoIP44 via XLR. There is a local network switch in the voice over studio and this connects via a spare port to the AoIP44 via CAT5/6, so that it is now recognised on the local network.

A second AoIP44 connects to the local network switch in the control room via a CAT5/6 connection. Two of the audio outputs from the AoIP44 are connected to the control room mixer via XLR.

We will configure this as the 2 channels of audio coming from the voice over studio. The stereo programme output from the control room mixer is connected to two of the AoIP44 inputs via XLR. All of the physical audio connections have now been made.

As both AoIP44s are connected on the network, the audio routing can be configured via the Dante Controller software. Simply run Dante Controller on any PC connected to the network and both AoIP44s will be displayed showing available sources and destinations. Click the check boxes to route the audio in the desired directions, and the system is now ready to be used.

Over shorter distances, network switches are not even required and 2 x AolP44s can connect directly. Audio routing still needs to be configured by Dante Controller on the units when they are connected to a network, but this is only required once to set the required routing.



AoIP44





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SPECIFICATION

AUDIO

Frequency Response <= 0.25dB Flat until 22k **Maximum Input Before Clip** +18dBu **Maximum Output Level** +18dBu Input Impedance >20k Ohm **Output Impedance** 50 Ohms Distortion 0.013% THD @ 100Hz, 1kHz & 10kHz Reference to +8dBu output **Noise Residual** -94.6dBu THD+N Relative (1k +8dBu) 0.00134% **Dynamic Range** 112.6dBs Crosstalk (0dBu input to output 1k tone) -94.7dBu **Output Type** Electronically balanced (can be wired unbalanced) on Neutrik 3 pin XLR plug Input Type Electronically balanced (can be wired Unbalanced) on Neutrik 3 pin XLR socket **NETWORK AUDIO Compatible Audio Networks**

Dante uncompressed, low latency audio. For full details visit <u>www.audinate.com</u> **Network Connection** Neutrik RJ45 EtherCON **Dante Network Sample Rate** 44.1k, 48k, 88.2k, 96k

POWER

Mains Input

Filtered IEC, 100 to 240VAC 47 - 63Hz

AC Consumption

4.3 Watts @ 230VAC

DC Input

4 Pin Neutrik XLR. +12v 240mA, -12v N/A

Internal Mains Fuse 20mm 1A Anti Surge

PHYSICAL

Size

445 x 123 x 44mm (LxDxH) no rack ears 482mm length (19" 1RU) with rack ears

Weight

1.2kg

Mechanics

All aluminium construction, anodized and laser etched

Shipping Carton

Rugged export quality cardboard carton 610 x 420 x 130mm LxDxH

Shipping Weight

2.7kg

E & OE





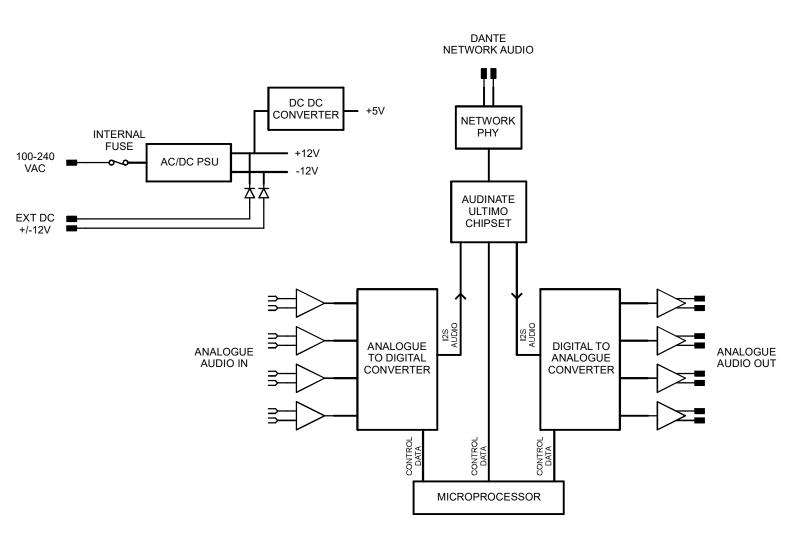
Maximum Resilience Broadcast Audio



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Network Audio Interface

AUDIO BLOCK DIAGRAM





Signature Series

Maximum Resilience Broadcast Audio

Email: sales@glensound.co.uk

Signature Series

Standard Features

STANDARD FEATURES





Keeps Working