

Robust Location One/ Two AES3 Channel Dante® / AES67 Network Audio Interface



AoIP44 AES3
AoIP22 AES3

Highlights

Powered by
PoE

AoIP44 AES3:
2 x AES3 Inputs/
Outputs

Dante® / AES67
Network Audio

Up to
96k/ 24 bit

AoIP22 AES3:
1 x AES3 Input/
Output

Robust Aluminium
Construction

Overview

The AoIP44 AES device uses Audinate's Ultimo Chipset, which can receive 4 incoming audio channels, each at 48kHz. However, this chipset can only receive these 4 audio channels from a maximum of 2 network locations (2 different devices). This is common with any manufacturer that uses this chipset.

Packaged in a small & rugged format and designed for outside broadcast, theatre and location applications, the AoIP22 AES3 and AoIP44 AES3 are designed to easily and quickly interface existing AES3 equipment to a Dante® / AES67 network audio system. Being powered by PoE means that only one cable needs to be connected to the network to carry both audio and power, providing flexibility and saving time on installation.

Robust proven construction techniques, simple reliable interface and excellent specification will help make your technician's life hassle free. Whilst the low cost and long asset life will keep the accountant satisfied.



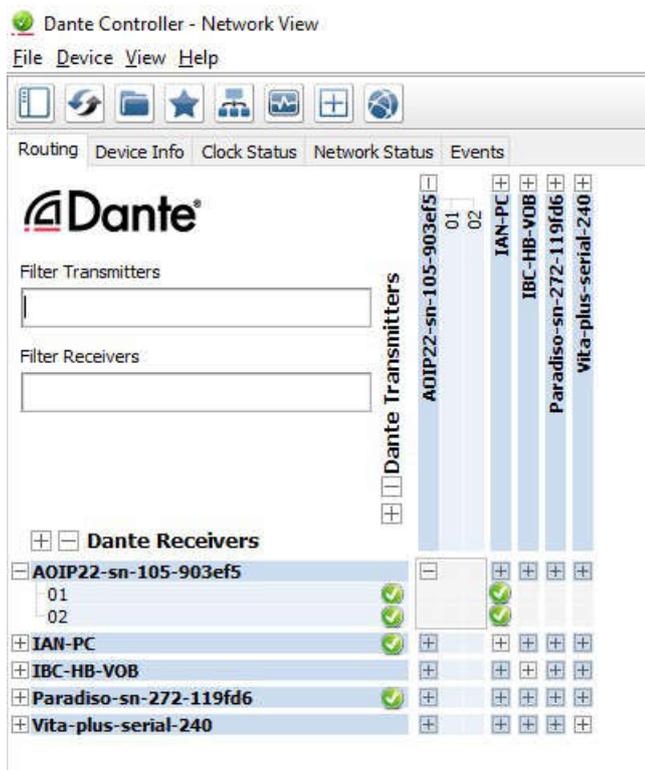
AoIP44 AES3
AoIP22 AES3

FEATURES

- AoIP22 AES3**
 The AoIP22 AES3 provides 1 balanced AES3 audio circuit on and off the Dante®/ AES67 audio network
- AoIP44 AES3**
 The AoIP44 AES3 provides 2 balanced AES3 audio circuits on and off the Dante®/ AES67 audio network ***PLEASE SEE SPECIFICATIONS
- Up to 192kHz Input Sample Frequency**
 AES 3 inputs can accept sample frequencies from 32 to 192kHz
- Up to 96kHz Output Sample Frequency**
 When operating 1 x AES3 output then either unit can support sampling up to 96kHz*** See note
- Sample Rate Converters on Inputs**
 To synchronise the incoming AES3 stream to the Dante®/ AES67 clock rate sample rate converters are provided on each input.
- Network Synchronised Outputs**
 The AES3 outputs are synchronised to the network audio sample rate and as such their clocks follow the Dante®/ AES67 circuits.
- Powered by PoE**
 To make installation a single cable affair, the AoIP AES3 units are powered by Power over Ethernet and can be powered from PoE enabled switches or Mid Span PoE Injectors.
- Transformer Balanced AES3 Inputs**
 AES3 transformers provide isolation of the audio inputs.



Dante® / AES67 Audio Interface



Dante® Controller by Audinate is a free application that controls all your Dante® enabled devices on your network.

It will automatically find the AoIP AES3 units and allow you just by the click of a mouse to route audio circuits to/ from it.

Dante® network audio has become very popular because it just works and it's so easy to use. Yet underneath the simple trouble free setup is a very sophisticated Audio over IP (AoIP) protocol working in real time across standard network switches with clever digital clock synchronisation to keep all equipment working in perfect harmony.

PRACTICAL FEATURES

- Rubber Feet**
If the AoIP22 or 44 is to be sat on a desk or the back of a workbench, the fitted rubber feet will prevent it sliding around.
- Cable Tie Holes**
All four front corners of the AoIP22 and 44 feature large extremely strong holes that are ideal for threading cable ties through. This makes temporarily installing the unit in out of the way locations very easy.





AoIP44 AES3
AoIP22 AES3

SPECIFICATION

AUDIO

Frequency Response

Flat to 22kHz

Maximum Input Before Clip

0dBfs

Maximum Output Level

0dBfs

Input Impedance

110 Ω

Output Impedance

110 Ω

Distortion

0.00006% THD+N @ 1kHz
 Reference to +18dBu output

Input Type

Transformer balanced on Neutrik 3 pin XLR socket

Noise

> -123dBu (Residual)

Dynamic Range

141dBs

Input Frequency

32 - 192kHz

Output Frequency *** See Note

44.1, 48, 88.2, 96kHz 1 x AES3 channel driven
 44.1 & 48kHz 2 x AES3 driven locked to Dante®

PHYSICAL

Size

153 x 105 x 41mm (WxDxH)

Weight

AoIP22 AES3: 405g
 AoIP44 AES3: 420g

Mechanics

All aluminium construction, anodized and laser etched

POWER

PoE

1.2 Watts

Source

PoE Enabled Switch or Mid-Span PoE Injector

NETWORK AUDIO

Compatible Audio Networks

Dante® uncompressed, low latency audio.
 AES67

Network Connection

Neutrik RJ45 EtherCON

Dante Network Sample Rate

44.1k, 48k, 88.2k, 96k, 192k

AES67 Network Sample Rate

48k

INCLUDED ITEMS

Handbook

By download

RJ45 Network Cable

2 metre Cat5 RJ45 plug/ RJ45 plug cable

ENVIRONMENTAL

Operating Temperature

0 to +50 °C (32 to 122 °F)

Storage Temperature

-20 to +70 °C (-4 to 158 °F)

Relative Humidity

0 to 95% non-condensing

*Network audio inputs

The AoIP AES3 units use the Ultimo chipset from Audinate, although a 4 channel chipset it can only receive audio from 2 different network streams

E & OE