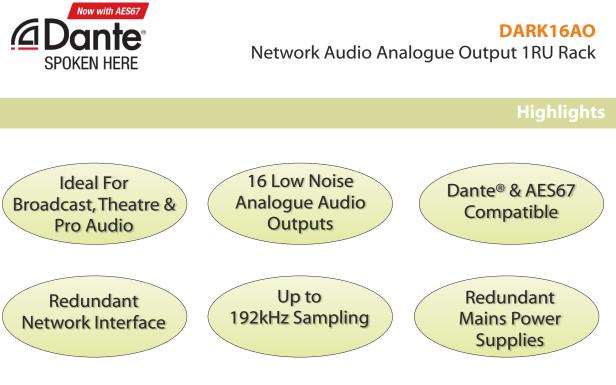


16 Channel AoIP Output Dante[®] Network/ AES67 Audio Interface







Overview

The DARK16AO is a 19" 1RU subrack that provides 16 high quality analogue audio outputs from a Dante[®]/ AES67 AoIP network. These audio outputs are balanced line level signals and for ease of installation are presented on rear panel XLRs.



Being designed originally for broadcast the DARK16AO has inbuilt resilience for both its network connections and power supplies. It is also suitable for Theatre, Installation and Pro Audio use.



The unit is part of our very popular DARK range of AoIP audio interfaces that have a proven reliable provenance, meaning that it is a safe fit and forget choice for your engineer. Your accountant will also be happy as it has a very long expected life span and a very competitive initial price.

www.glensound.com



DARK16AO

Dante®/AES67 AoIP Analogue Audio Output

Features



Sixteen Audio Outputs

The DARK16AO has 16 audio outputs from the network. Each output is on it's own Neutrik 3 pin XLR plug. The outputs are electronically balanced and can be connected to unbalanced inputs if required.

Dante[®] and AES67

Although Dante[®] is by far the most popular current format for distributing audio across a standard Ethernet network, the DARK16AO is also AES67 compliant for users who prefer to use an open standard.

Up to 192kHz Sampling

Each incoming audio circuit can be sampled at up to 192k, which is four times the 48k rate used by most broadcasters and double the 96k rate used by lots of professional audio systems.

Easy Connection To Network Switches

Having the Ethernet network copper and fibre interfaces located at the front of the rack mean they are presented on the same face as most Ethernet switches. This allows for easy patching between the Dark16AO and its associated network switch(s).

19" 1RU Subrack

The DARKk16AO is housed in a rugged custom built aluminium subrack, for long life it has laser etched anodised front & rear panels and powder coated lid and base. The subrack has been carefully designed to eliminate the need for noisy and unreliable cooling fans.





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DARK16AO

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Features



Network Interface

There are 4 network interfaces on the Dark16AO. There are 2 x Neutrik Ethercon (Rj45) connectors and there are also 2 x SFP slots for customers to fit their own preferred fiber interfaces.

Redundant Network Interface

When using the Dante[®] protocol it is possible to set the Dark16AO to have a fully redundant network interface whereby a completely glitch free automatic redundant audio network link is provided across 2 off the network interfaces.

Power

Two wide range switch mode power supplies are fitted as standard to provide redundant mains power supply solution. Either supply can provide power to the unit and two are fitted for extra resilience.

Status LEDs

Front panel LEDs provide clear indication of the status (working (or not)) of both the power supplies and both the primary & secondary network circuits.

Alarms

Solid state relay outputs are provided for triggering external equipment to indicate failure of any pf the following: PSU1, PSU2, Primary Ethernet, Secondary Ethernet









DARK16AO

Designed For Broadcast & Audio Professionals

Specification

ANALOGUE AUDIO

Frequency Response +/-0.25dB 20Hz to 22kHz Maximum Output Level

+18dBu (+24dBu by special order) Full Scale

0dBFs = +18dBu (+24dBu by special order) Output Impedance

=<50 Ohms

Distortion

0.0013% @ 100Hz 0.0022% @ 1kHz 0.00094% @ 10kHz Reference to +8dBu output

Noise

-93dB @ line up A weighted RMS (22Hz to 22kHz)

Interchannel Crosstalk >101dB @ 0dB with1kHz tone

Output Type Electronically balanced (can be wired unbalanced)

POWER

Mains Inputs 2 off Filtered IEC, 100 to 240VAC 47 - 63Hz

AC Consumption 18 Watts @ 230VAC

Internal Mains Fuse 20mm 1A Anti Surge

MISC

Audio Connectors 3 Pin Neutrik XLR plugs Alarm Connector 9 Way D Socket Alarm Type Solid State Relay

NETWORK/ Dante®

Physical Interface

2 off Rj45 Neutrik Ethercon 2 off SFP slots **Audio Sample Frequency**

32 - 192kS/s

Transfer Rate 1000 Mbps

Dante[™] Chipset

Brooklyn II

Note: suitable for acting as master clock for a network incorporating many Ultimo chipsets **AES67 Compliant**

AES67 compliant

AES67 compliant

PHYSICAL

Size

1RU 19" 300mm deep (from rear of front panel to rear panel (excluding connectors)) Weight

2.8kg

Mechanics

All aluminium construction, anodized and laser etched front & rear panels

Shipping Carton

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

Shipping Weight

4.3kg

INCLUDED ITEMS

Handbook

Physical A5 (download also available) **Rj45 Network Cable** 2 metre Cat5 Rj45plug /Rj45plug cable **Mains Cable** 2 metre IEC socket cable (UK & EU only)



