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16 Channel AoIP Output
Dante® Network/ AES67 Audio Interface

Now with AES67

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DARK16AO
Network Audio Analogue Output 1RU Rack

Network Audio
Analogue Output

Highlights

Ideal For Broadcast, Theatre & Pro Audio

16 Low Noise Analogue Audio Outputs

Dante® & AES67 Compatible

Redundant Network Interface

Up to 192kHz Sampling

Redundant Mains Power Supplies

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.

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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
Dante®/AES67 AoIP Analogue Audio Output

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

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)

E & OE