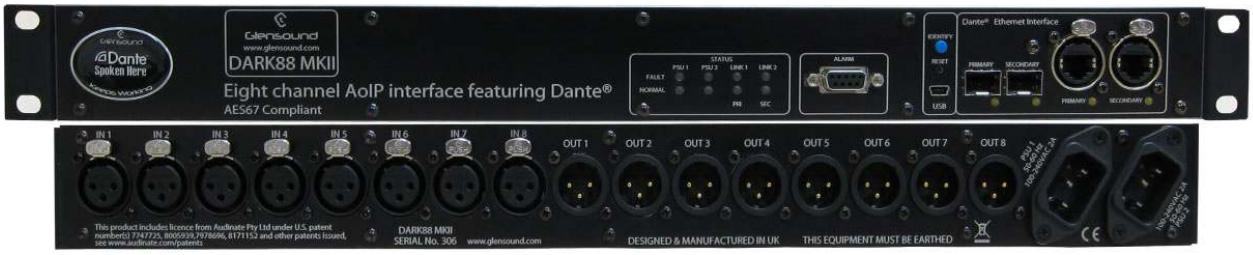
Network Audio Interface

8 Channels Of Analogue Audio Across a Dante/AES67 Audio Network



DARK88 MKII
Dante Network Audio Interface

Highlights

- Dante Network Audio Interface With AES67
- Sample Rates Up to 192K
- 8 Bi-directional Channels Of Analogue Audio
- Redundancy On Network Links & Power Supplies
- Copper & Fibre Network Interface
- Designed For 24/7 Operation

Overview

Moving audio from A to B is now more flexible than ever. The Dante® system allows audio links over networks to be un-compressed, low latency and reliable. The Dante® Controller software allows simple point to point or point to multipoint routing across a network of Dante® enabled products.

Glensound adds broadcast grade reliability to the Dante® interface with a primary and redundant CAT5 link, a primary and redundant SFP/fibre link, and a primary and redundant power supply. The Dark88 MKII is designed for professional applications where 24/7 usage is the norm.

AES67 network audio is also accommodated for those customers wishing to utilise this Audio over IP standard instead of Dante®.

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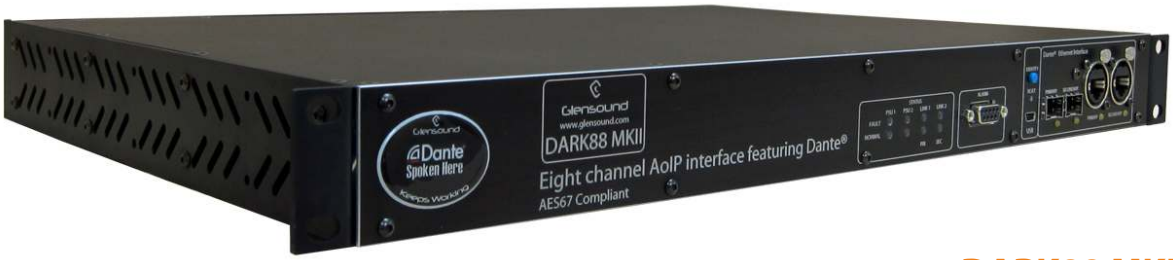

DARK88 MKII
Dante® Network Audio Interface

Features

- **Network Audio Link Options**
  Links between DARK88 MKIIs and other Dante® network devices across a network can be via:

  Network cable - Primary & Redundant
  Two CAT6 network cable connections provide a primary and redundant connection. The maximum range of this link is 100m.

  Fibre - Primary & Redundant
  Two SFP slots provide options for single, multi mode or bi-directional SFP modules, on a primary and a redundant connection. The distance of this link could be over many kilometres depending on the SFP module used

  Audio Inputs & Outputs
  The Dark88 MKII has 8 analogue inputs and outputs. All audio input and output connections are presented on Neutrik XLRs, are electronically balanced and can be wired unbalanced if required.

- **Network Or Direct Linking**
  Two DARK88s can be linked directly or as part of a Dante® network.

- **AES67**
  The DARK88 MKII uses the Brooklyn Module from Audinate. This is AES67 compliant and can easily be set to work on AES67 networks.

- **Local Ethernet Switch**
  Each DARK88 MKII has a 4 port Ethernet switch. If your primary network link is on fibre using the primary and redundant connections, you can utilise the CAT6 connections for linking multiple units. Only one DARK88 MKII has to connect to the network, and the rest can daisy chain through any spare CAT6 or copper ports. Each will be presented on Dante® Controller as a separate unit.

- **Designed for 24/7 Operation**
  The technology that goes into making the DARK88 MKII comes from years of Glensound know how and the unit is designed to be suitable for permanent robust 24 hours a day 365 days a year operation.

Dante®
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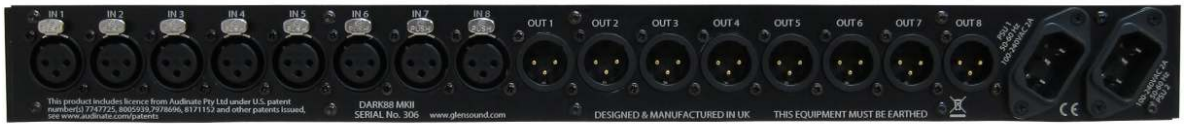
Keeps Working

Network Audio Interface



DARK88
Dante Network Audio Interface

Description

The DARK88 MKII is a versatile break in/ out box for sending/ receiving analogue audio to/ from a network utilizing the Dante® audio over IP (AoIP) protocol.

In total there are 8 channels of audio sent from the DARK88 MKII into the network. The DARK88 MKII has 8 off analogue electronically balanced audio inputs on Neutrik XLRs.

Simultaneously there are 8 channels of audio being received from the network by the DARK88 MKII and these incoming circuits are provided as outputs from the DARK88 MKII in analogue.

Being designed for resilient broadcast applications the DARK88 MKII features both redundant power supplies and redundant Dante® network links. Both primary and secondary network links are provided with both magnetic (copper RJ45) and fibre (SFP) interface connections. The Dante® system itself provides a completely transparent redundant link system which means that if the DARK88 MKII lost its primary link circuit the secondary link would automatically take over with no loss of audio.

The primary and secondary network interfaces are routed internally via a network switch and it is possible to set this switch to work as a traditional network switch instead of the default redundant mode meaning that there would be just one link to the Dante® network and the other connections of the switch could have other Dante® or network devices connected to them. As with all Dante® devices once set up Dark88 units can be directly connected with each other with no external network hardware.

On the front panel LEDs indicate the status of the 2 power supplies and also indicate the status of the network links. Solid state relay outputs also provide links to external equipment to indicate the power supply & network link status.

Network connections are placed on the front panel of the DARK88 MKII in order that the network cables (or fibres) match those of a rack mounted professional network switch, making installation and tracing interconnecting cables easy. Fibre connections are via SFP slots, meaning that users can select their own preferred fibre type & connector style by installing their own fibre SFP modules (a selection of modules are available from Glensound if preferred).

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Technical Specifications

SPECIFICATIONS

DARK88 MKII

AUDIO

Frequency Response
>-0.25dB 20Hz to 22kHz (Input to Output)

Maximum Input Level
+18dB

Maximum Output Level
+18dBu

Input Impedance
>20k Ohm

Output Impedance
=<50 Ohms

Distortion
0.008% @ 100Hz
0.007% @ 1kHz
0.005% @ 10kHz
Reference to +8dBu output

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

Interchannel Crosstalk
>109dB @ 0dB with1kHz tone

Dynamic Range
>111dB

Network Sample Rates
32 to 192kHz

Output Type
Electronically balanced (can be wired unbalanced)

Input Type
Electronically balanced (can be wired Unbalanced)

INCLUDED ITEMS

Rj45 Cable
1 off 2 Metre Rj45 to Rj45 Cat5 Cable

Handbook
A4, Download also available

Mains Cable
1 off 2 Metre IEC cable (UK & EU Only)

POWER

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

AC Consumption
16 Watts

Internal Mains Fuse
20mm 1A Anti Surge

PHYSICAL

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

Weight
3 kg

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
4.5kg

MISC

Alarm Connector
9 Way D Socket

Alarm Type
Solid State Relay

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E&OE