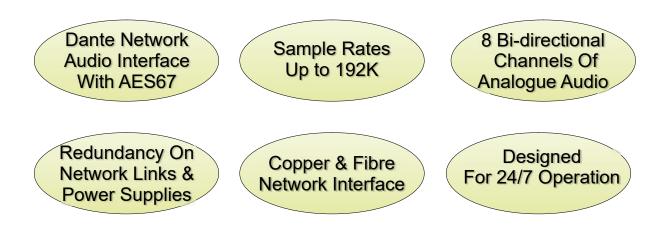
8 Channels Of Analogue Audio Across a Dante/AES67 Audio Network



DARK88 MKII Dante Network Audio Interface





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[®].





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.





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).



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

By download

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

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

Glensound Keeps Working