



TECHNICAL DATA SHEET

CANFORD DANTE INTERFACES

20-071 CANFORD CAN-AI ANALOGUE TO DANTE CONVERTER 2 CHANNEL

20-072 CANFORD CAN-AO DANTE TO ANALOGUE CONVERTER 2 CHANNEL

20-073 CANFORD CAN-DIO DANTE TO AES/EBU DIGITAL CONVERTER BI-DIRECTIONAL

DESCRIPTION

The Canford Dante adapters provide an alternative to the existing Audinate and Amphenol in-line adapters. They are simple stereo audio adapters to convert between either analogue or digital, to or from Dante. Superior performance is offered in analogue audio conversion and rugged connectivity through the Ethercon connectors. Each unit is powered by PoE. The range consists of three units, providing different audio connectivity options.

CONNECTORS

Neutrik EtherCON input connectors are provided for data and PoE.

Audio connectors are Neutrik 3-pin male and female types.

INDICATORS

A red/green bicolour LED shows RED when power is available and AMBER to show a 100Mbps link speed.

A GREEN LED shows network activity: solid colour when connected, blinking when there is network activity.

VERSIONS

20-071 CAN-AI

This is an analogue audio to Dante converter. Inputs are on balanced, Neutrik XLR 3-pin female connectors.

20-072 CAN-AO

This is a Dante to analogue audio converter. Outputs are on balanced, Neutrik XLR 3-pin male connectors.

20-073 CAN-DIO

This bi-directional unit converts Dante to and from AES/EBU digital signals. Transformer balanced input and output signals are handled by male and female XLR connectors.

INSTALLATION

All units come in a Canford extruded box. They may be placed wherever suitable.

POWERING

All units are powered via the Ethernet network. No external power is required.

TECHNICAL SPECIFICATION

Analogue Audio Input Performance

Input Impedance	>20K ohm balanced
0dBFS line-up	+18dBu
Frequency Response	20Hz to 20KHz, +0/-0.2dB
THD + N	<-100dBFS, -12dBu. 20Hz to 20KHz, 20KHz BW
Noise	<-100dBFS, 20KHz BW. Rs=200 ohms
Crosstalk	<-90dB
Common Mode Rejection	>60dB@1KHz

Digital Audio Input Performance

Input Impedance	110 ohms
Sample Rate Conversion	32 – 192KHz to 32KHz – 96KHz. (Set in device config. menu in Dante controller.)

Analogue Audio Output Performance

Output Impedance	<50 ohm balanced
0dBFS line-up	+18dBu
Frequency Response	20Hz to 20KHz, +0/-0.5dB
THD + N	<-82dBu, -30dBFS, 20Hz to 20KHz, 20KHz BW
Noise	<-82dBu, 20KHz BW.
Crosstalk	<-90dB

Digital Audio Output Performance

Output Impedance	110 ohms
Output Sample Rates	32KHz – 96KHz. (Set in device config menu in Dante controller.)



TECHNICAL DATA SHEET

GENERAL

24-bit@44.1, 48 and 96KHz.

Asynchronous sample rate conversion.

Sample rate converter bypass via internal jumper

DANTE DEVICE INFORMATION

Within the Dante controller, under the status tab, the following will appear under “device information”:

Manufacturer: CANFORD

Product Type: CAN-AI / CAN-AO / CAN-DIO

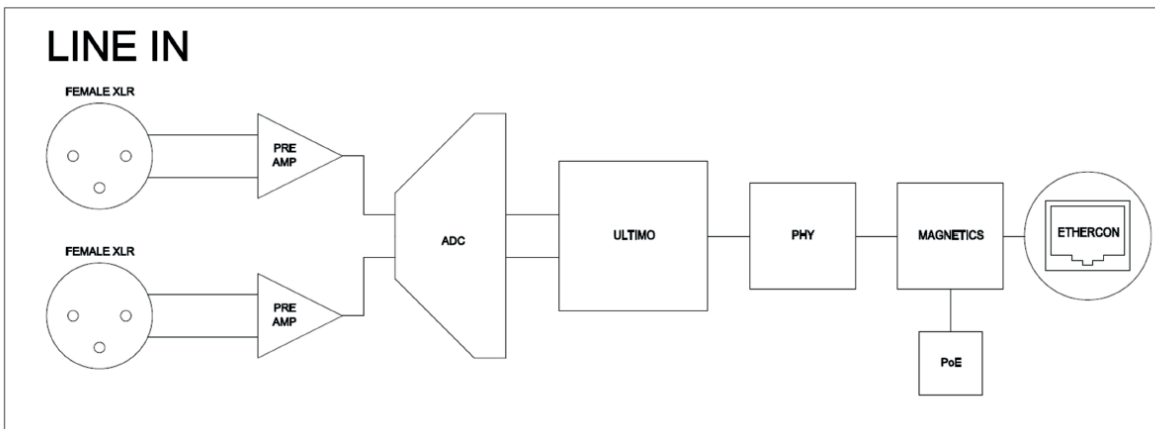
Device Name: Product type, followed by a hyphen and the last 6 digits of the MAC address (e.g. CAN-AO-81931b).

PoE/Network Port Pinouts: RJ45

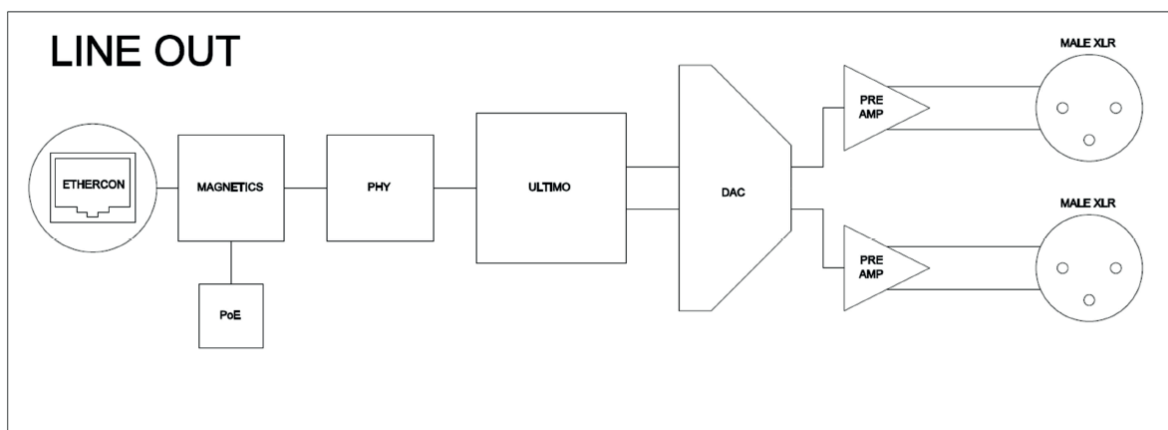
	802.3af Mode A	802.3af Mode B
1	Rx+	RX+ & DC+
2	Rx-	RX- & DC+
3	Tx+	Tx+ & DC-
4	DC+	
5	DC+	
6	Tx-	Tx- & DC-
7	DC-	
8	DC-	

BLOCK DIAGRAMS INFORMATION

CAN-AI - ANALOGUE TO DANTE CONVERTER



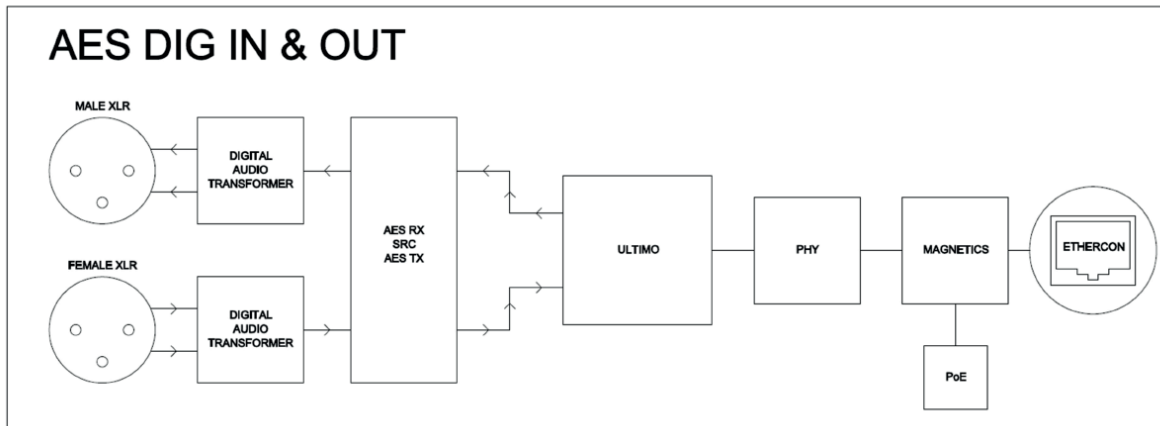
CAN-AO - DANTE TO ANALOGUE CONVERTER





TECHNICAL DATA SHEET

CAN-DIO - DANTE TO AES/EBU DIGITAL CONVERTER



ACCESSORIES

MATING CONNECTORS

XLR

41-031 Neutrik XLR Cable connector, female

41-032 Neutrik XLR Cable connector, male

ETHERCON cable housing

46-501 NE8MC nickel (For fitting over existing cables)

46-502 NE8MC-B black (For fitting over existing cables)

46-503 NE8MC-I nickel (Cannot be retro fitted)

46-504 NE8MC-B-I black (Cannot be retro fitted)

Ethercon leads:

<https://www.canford.co.uk/CANFORD-ETHERCON-CAT5E-SCREENED-ADAPTER-PATCHCABLES-Using-Cat5E-F-deployable-cable>