



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
- 20-074** CANFORD UMPC CAN-AI ANALOGUE TO DANTE CONVERTER 2 CHANNEL
- 20-075** CANFORD UMPC CAN-AO DANTE TO ANALOGUE CONVERTER 2 CHANNEL
- 20-076** CANFORD UMPC CAN-DIO DANTE TO AES/EBU DIGITAL CONVERTER BI-DIRECTIONAL

DESCRIPTION

Canford Dante adapters are simple stereo line level audio adapters to convert between either analogue or digital audio to or from Dante. The adapters offer high performance analogue audio conversion and rugged connectivity through the XLR and Ethercon connections. Each unit is PoE powered. The range consists of three units providing different audio connectivity options. Two case styles are available, Standard extruded box style and a Universal Connection Panel mount style.

CONNECTIONS

Neutrik EtherCON input connectors are provided for data and PoE. Analogue and digital audio connections are male and female Neutrik 3-pin XLR's.

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	Indicates network activity.

CONNECTIONS

20-071/074 CAN-AI

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

20-072/075 CAN-AO

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

20-073/076 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

Standard extruded box style units can be placed wherever suitable. The UMPC type are attached to a universal mounting plate designed to fit the Canford Universal Connection Panel system.

POWERING

All units are POE, (Power Over Ethernet). Ensure that POE is available/enabled from your network at the point of connection.

SAMPLE RATE

24-bit @ 44.1, 48 and 96KHz. Asynchronous sample rate conversion on AES/EBU model. Sample rate Conversion bypass via Firmware update using the Audinate Update Manager. Firmware file available on request. For use when AES/EBU is already being clocked from network PTP.

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 RJ45 PORT PINOUTS

	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-	



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TECHNICAL SPECIFICATION

Analogue Line Level Audio Input

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

Analogue Line Level Audio Output

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

AES/EBU Digital Audio Input

Input Impedance	110 ohms
Sample Rate Conversion	Accepts 32KHz – 192KHz Converts to 44.1KHz – 96KHz for Dante. Set in device config menu in Dante controller.

AES/EBU Digital Audio Output

Input Impedance	110 ohms
Sample Rate Conversion	44.1KHz – 96KHz from Dante. Set in device config menu in Dante controller. Converts to 32KHz – 192KHz dependent on AES/EBU clock

Dimensions

L x W x H	107mm x 65mm x 51mm
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ACCESSORIES

Analogue and Digital Audio XLR mating connectors:

- 41-031 NEUTRIK NC3FXX XLR Female cable connector, nickel shell, silver-plated contacts
- 41-032 NEUTRIK NC3MXX XLR Male cable connector, nickel shell, silver-plated contacts

Ethercon cable housings:

- 46-0581 NEUTRIK NE8MX ETHERCON Cable housing, nickel (For fitting over existing cables)
- 46-0582 NEUTRIK NE8MX-B ETHERCON Cable housing, black (For fitting over existing cables)
- 46-0583 NEUTRIK NE8MX-1 ETHERCON Cable housing, nickel (Cannot be retro fitted)
- 46-0584 NEUTRIK NE8MX-B-1 ETHERCON Cable housing, black (Cannot be retro fitted)

Ethercon cables:

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

Universal Connection Panel:

- 45-3700 Canford Universal Modular Connection Panel Kit, grey
- 45-3900 Canford Universal Modular Connection Panel Kit, black

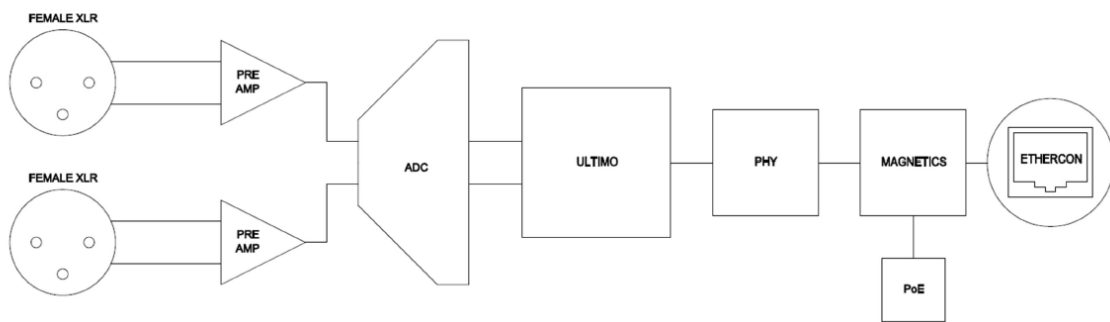


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SCHEMATIC DIAGRAMS

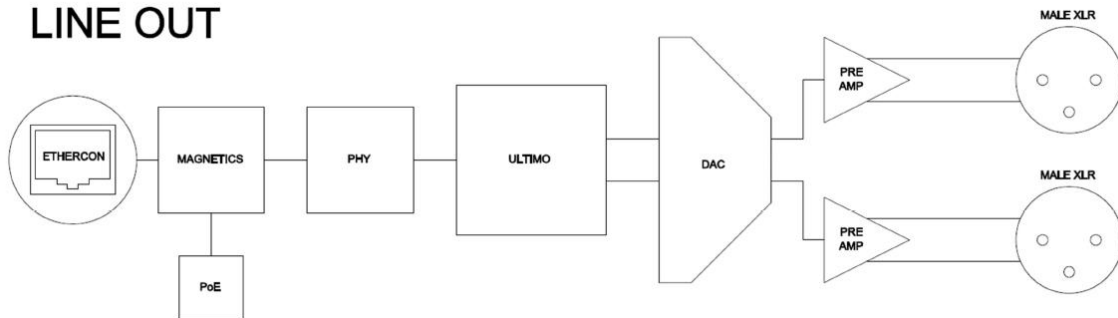
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LINE IN



20-072/075 CANFORD CAN-AO DANTE TO ANALOGUE CONVERTER 2 channel

LINE OUT



20-073/076 CANFORD CAN-DIO DANTE TO AES/EBU DIGITAL CONVERTER Bi-directional

AES DIG IN & OUT

