



DCU304

Dante™ enabled commentary/announcer unit



by
CTP Systems



Product warranty

This unit is guaranteed for a period of one year from dispatch of the goods. This guarantee is a return to base warranty. In the unlikely event of a fault the goods should be returned to CTP Systems in the UK or your local dealer.

This equipment is CE marked and conforms to the following directives:

Low Voltage Directive: EN60065

Emissions: EN55103.1

Immunity: EN55103.2

WEEE

CTP Systems are registered for Business to Business sales of WEEE in the UK. Our registration number is WEE/DF0509VR. This is why our product has a ridiculous picture of a dustbin on the side.

RoHS

The product conforms to the RoHS Directive 2002/95/EC for restriction of the use of hazardous substances in electrical and electronic equipment.

This unit was designed and manufactured in the UK by CTP Systems Limited, Unit 4, Clinton Business Centre, Lodge Road, Staplehurst, Kent TN12 0QF.

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Dante is a trademark of Audinate Pty Ltd.



Overview

The DCU304 is a network four input, three output commentator/announcer unit. Each headphone input may be selected to left, right or both earpieces. The programme microphone output is silently muted when the cough, talkback 1 or talkback 2 keys are pressed.

As well as being available on the network the programme microphone output is also available locally on analogue XLR. The microphone input has switchable 48 volt phantom power.

Network connection may be either standard RJ45 or Ethercon and the unit is housed in a robust compact aluminium case.

Power

The DCU304 may be powered using either the supplied 12 volt DC universal adaptor or by Power over Ethernet. These power sources may both be connected at the same time. PoE consumption is class 0.

Setting Up

The DCU304 should be used in conjunction with Dante Controller software available from <https://www.audinate.com/products/software/dante-controller>.

As supplied the DCU304 will appear in Dante Controller as DCU304-nnn as a four input, three output device.

When the unit is powered and network connected the green LED by the RJ45 connector will flicker to show successful network connection and data transfer.

Programme Sound

The microphone output is available at line level over the network and on the analogue XLR output simultaneously. In all cases the programme output is silently muted when the cough or talkback 1 or 2 keys are pressed.

Talk/Cough keys

Pressing the cough key will just mute the Dante programme and analogue programme outputs. Pressing the talkback1 or talkback2 keys will mute the Dante and analogue programme outputs and will divert the programme audio to the selected talkback1/talkback2 destinations.



Microphone Amplifier Gain Adjustment

Microphone amplifier gain is adjustable to -5dB and in 1dB steps from -15dB to +70dB.

Gain settings are shown on the OLED display on the right hand side of the unit. The display will normally show 'Locked'.

To adjust first press both the up and down buttons together for approximately three seconds to unlock the function. The display will no longer show 'Locked' and gain may now be adjusted using the up and down arrow keys. Hold down the up or down key to increase adjustment speed.

If the buttons are not pressed for 1 minute they will automatically return to 'Locked' mode.

Phantom Power

To toggle phantom power on/off first unlock the function as above. Press the down button until the screen stops changing (at -5dB). Release the down button.

Each press of the down button will now toggle phantom power on or off. When phantom is set on or off as required then press the up button to set microphone gain.

Notes

This unit may of course also be used as a Dante four wire box or just a high quality analogue or Dante microphone amplifier.

It may be also be used in AES67 mode by selecting accordingly in Dante Controller.

Sample rate

The DCU304 may be set to operate at sample rates of 44.1 or 48kHz, 16 or 24 bit via Dante Controller.

Power

PoE class 0
12 volts DC 1A

Mechanical

103mm D x 135mm W x 70mm H (Including knobs).

Weight 0.5 kilos

Aluminium case with plastic protectors.

Block Schematics

DCU304 simplified audio path block diagram.

