



Prehear D4080 Dante™ enabled Prehear 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 back.

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 Prehear D4080 is a Dante enabled version of our analogue Prehear 1020. The unit is unusual in that it is Dante equipped but is also fully functional in stand alone analogue mode or even both at once, particularly useful for de-rigs. The unit presents itself to the network as a ten input, two output device but also has ten analogue inputs and two analogue outputs.

All inputs are selectable to either or both of the two internal speakers, line level speaker outputs and headphone socket with individual volume controls, cut buttons and signal input LEDs. The unit includes a secondary port for Dante Redundancy or a switch output. Both ports include network activity LEDs.

The Prehear 4080 covers all those 'listen' feeds required by production. Pre-fade listen feeds of presenters, off air feeds, and all those other bits and pieces that waste talkback matrix inputs can be fed directly to these units with convenient local control. There are both primary and secondary network connections to allow for redundancy. The unit is suitable for Gigabit network operation which is highly recommended.

Setting Up using Dante

The Prehear D4080 should be used in conjunction with Dante Controller software available from <https://www.audinate.com/products/software/dante-controller> if it is to be used in network mode.

As supplied the Prehear D4080 will appear in Dante Controller as PrehearD4080-*nnn*. The inputs are labeled 'Input 1' to 'Input 10', Outputs are designated 'Output 1' and 'Output 2'.

Connect the primary RJ45 to your router. If redundant operation is required connect the secondary RJ45 to the redundant network router. Alternatively the secondary RJ45 may be used as a router output for forwarding on to additional Dante equipment. This feature may be configured in Dante Controller.

When the unit is powered and after successful network connection the LEDs on the RJ45 connectors will illuminate. The right LED will be amber if you have a gigabit connection or green if operating at 100 Mbps. The left LED will blink green to show activity on the port or will be off if no link has been established.

It takes the unit some 10 seconds to set up and connect, while this is in operation the front panel cut button LEDs will flash in sequence.



Analogue Mode

Simply connect line level inputs and outputs as required. On power up the unit it will take 10 seconds to set itself up, again the LEDs will flash in sequence while this is in operation.

Mixed Analogue and Dante Mode

The Prehear D4080 may be used in both analogue and network mode at the same time. Either route an input/output using Dante Controller or plug in an XLR, no switching is required. If a given input has both a network input and an analogue input then the two sources will be mixed together.

Dante outputs and analogue outputs are both active at the same time so the unit can be used with any combination of Dante and analogue inputs/outputs.

General Operation

An input turned up full will produce a unity gain output to both the Dante network and the analogue outputs.

Use the toggle switches to select the input to left (L), centre (C), or right (R) outputs and/or speakers.

Channels may be individually cut using the halo 'Cut' switches.

The green 'audio' LEDs will illuminate when a signal above -15dBm (-33dBFS) is detected on the channel. The audio LED will hold on for 10 seconds after the input signal is removed.

The 'Speaker Cut' switch mutes the internal speakers, the Dante network outputs and the analogue outputs. The headphone socket is active at all times.

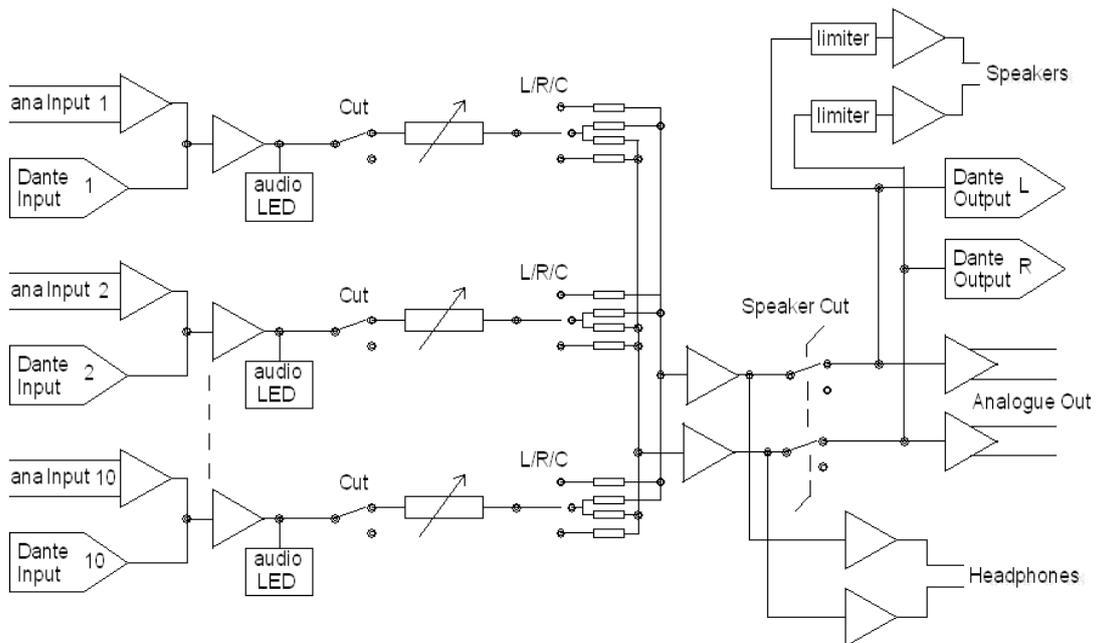
The 'D' for Dante LED will illuminate on successful connection to a network switch.

The unit incorporates limiters to protect the internal speakers from being over driven.



Block Schematic

This is a simplified diagram.



Sample rate

The Prehear D4080 is able to operate at sample rates of 44.1 and 48kHz.

Power

100-240VAC 50/60 Hz

Consumption <17 Watts speakers muted, <36 Watts speakers full volume with 1k tone.

Mechanical

2RU case 150mm deep.

Weight 1.3 kilos

All aluminium case.