



DPM802

Dante™ enabled Production Monitor Unit



by
CTP Systems



Product warranty

This DPM802 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 and EN62368-1: 2014

Emissions: EN55032: 2015

Immunity: EN55035: 2017

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.

This manual assumes a degree of familiarity with Dante controller. If you are not familiar please see this document:

<https://dev.audinate.com/GA/dante-controller/userguide/pdf/latest/AUD-MAN-DanteController-4.1.x-v1.0.pdf>



Overview

The DPM802 is a Dante enabled PoE Production monitor unit with eight Dante stereo inputs, one analogue stereo input and both Dante and analogue stereo outputs.

The unit includes up to eight frames of programmable stereo delay plus cut, dim and of course a volume control. There are also two GPI inputs for remote control of cut and dim.

The DPM802 has many features that may be programmed via its web page including key colours, delay time, input gains and remote control of functions. For convenience of adjustment the delay time may also be set using just the front panel controls as well as via the web page. The unit includes a redundant network connection which may alternatively be used as a network switch output.

Power

The DPM802 may be powered by:

Mains, 110-240 VAC 50/60Hz.

Power over Ethernet (PoE) on either or both of the copper primary and secondary ethernet jacks.

Network Connection

The DPM802 has a built-in network switch with two RJ45 connectors. This switch may be configured either as a standard switch where network connection may be passed on to other network devices or with redundant input for connection to a secondary (backup) network. This switch function should be configured from within Dante Controller.

The network connector green LED will flicker on successful network connection and the red LED will illuminate red when the unit has a gigabit connection.

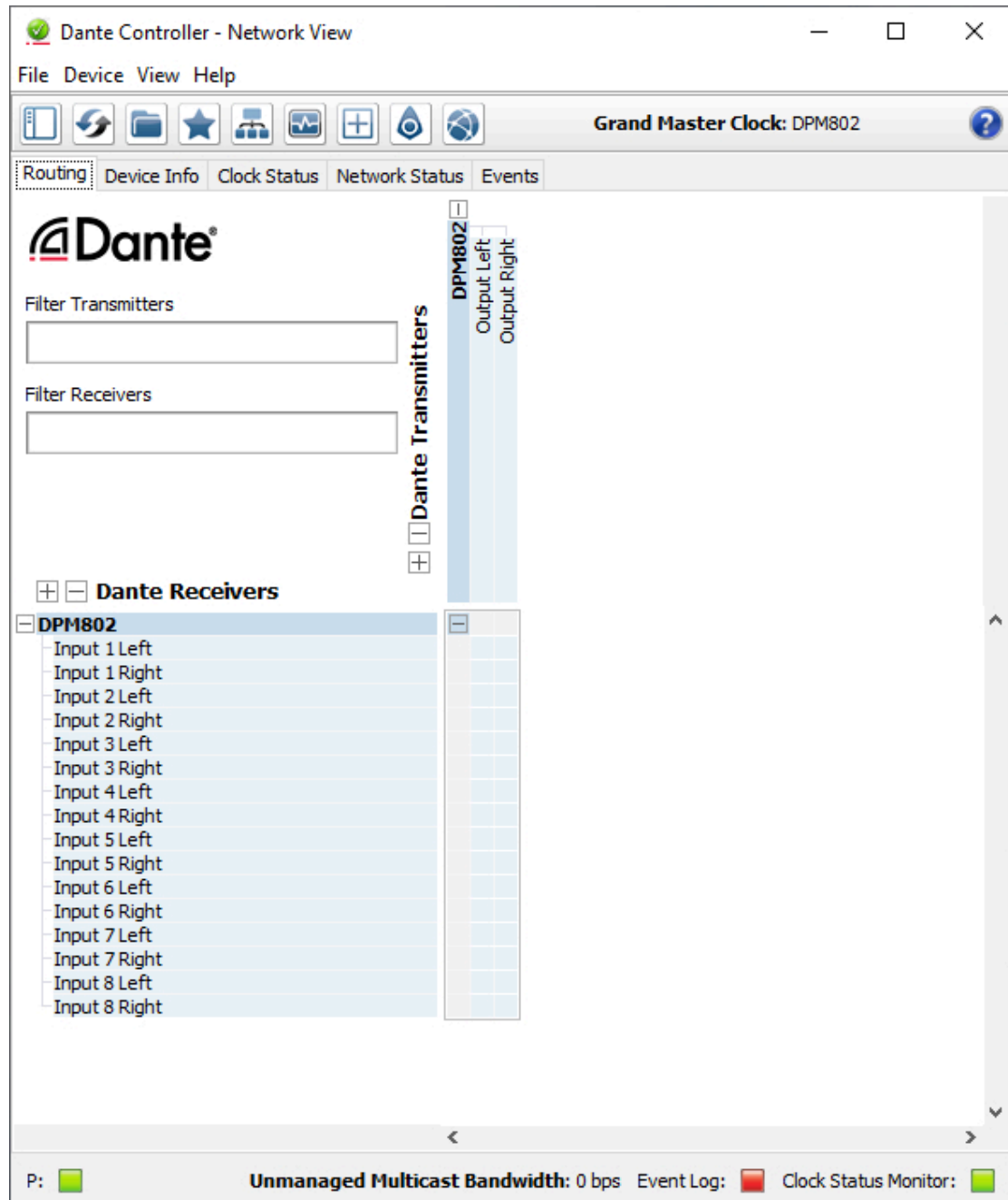
Applying Power

On power up the DPM802 will flash the front panel buttons alternate green and red to signify it is setting up internal network connections. When this is done the unit will set all push buttons, audio routing and delay to the same state as before the unit was powered down.



Using with Dante Controller

Below is a picture of how the DPM802 will appear in Dante Controller and a brief description of the functions.



Inputs

Inputs are switched in stereo pairs. On pressing button input select 1, Input 1 Left and Input 1 right will be routed to Output Left and Output Right respectively.



Pressing input select 2 will result in Input 2 Left and Input 2 Right being routed to Output Left and Output Right respectively and so on.

Outputs

The Dante Outputs Left and Right are mirrored on the rear of the DPM802 as balanced XLR analogue outputs for convenient connection to a power amplifier.

Analogue Inputs

The stereo balanced XLR inputs on the rear may be assigned to any of the select buttons using the DPM802 web page. If both the analogue input and a Dante input (via Dante Controller) are assigned to a given input then the signals will be mixed together.

GPI connections

The DPM802 includes two GPI inputs, one for control of the speaker cut function and one for the dim function. A simple short across pins 1&6 will activate the speaker cut and a short across pins 2&7 will activate the speaker dim. The panel buttons will illuminate to show current status. These remotes may be overridden locally. For example, if a remote cut is active, pressing the cut button will extinguish the button and the cut will be released.

Delay

Delay may be introduced into the signal path in one frame steps from zero to eight frames. The delay time may be selected either via the DPM802 web page or using the front panel controls. The delay may be switched in and out of circuit using the front panel delay button.

Setting Delay Time Locally

Press and hold the delay button for 5 seconds. If delay is set to zero frames all select lights will extinguish. If delay is one frame then select button one will illuminate yellow, if delay is two frames then select button two will illuminate yellow and so on up to eight frames or button eight. To set delay back to zero frames press the currently illuminated button and all will be extinguished.

The delay will actively change with the selector switches making it an easy task to match sound with pictures.



Accessing the DPM802 web page

The web page may be accessed using the Dante assigned IP address of the DPM802. If you are using a fixed IP address then you already know what the IP address is. If you are using DHCP the address may be found using Dante Controller and selecting Device Info. Dial this address (eg. 169.254.34.217) into your web browser and the webpage will appear.

If your network is suitably set up it is also possible to access the web page using the following:

<http://dantename.local/>

where dantename is the name that appears for the DPM802 in Dante Controller. If this does not work it is outside the scope of this document and down to your network setup, please ask your IT dept. or use the IP address.

Any number of DPM802s may be viewed at once in multiple browsers or tabs.

It is important to note that the web page information will not be valid until some 20 seconds after the DPM802 is powered up, it takes this time for the first full network update. If changes are made using the local delay set feature an already open web page will not have the new delay setting automatically updated, it must be refreshed in the normal way, just as with any web page.

For items on the web page with a down arrow such as 'Select Switch Colour', just click on the down arrow and select as required. For items with a direct input such as 'Input Select' or 'Input 1 Level' just click on the box and type in a value. Any values outside the allowed value range will result in no change in the display, the allowed range is shown to the left of the input boxes. Note that one or any number of changes may be made but they will not be sent to the commentary box until the 'Submit' button is pressed.

If at any time you require confirmation of the comms box status just put the cursor in the URL box and hit return and the page will reload.

When inputting positive values (say +12dB) the + sign is not required so just type in 12. For negative values the minus (-) is required as in standard mathematical notation.



The DPM802 web page

CTP systems

PRODUCTION MONITOR UNIT SETUP INFORMATION

DPM802 Production Monitor Unit Setup

Select Switch Colour

Cut Switch Colour

Dim Switch Colour

Delay Switch Colour

Input Selected

Cut Switch

Dim Switch

Delay Switch

Analogue Input(0 to 8)

Delay (0 to 8 Frames)

Input 1 Level(-12 to +12dB)

Input 2 Level(-12 to +12dB)

Input 3 Level(-12 to +12dB)

Input 4 Level(-12 to +12dB)

Input 5 Level(-12 to +12dB)

Input 6 Level(-12 to +12dB)

Input 7 Level(-12 to +12dB)

Input 8 Level(-12 to +12dB)

Analogue Input Level(-12 to +12dB)

DPM802 setup

Select Switch Colour

This may be set to red or green. It will change dynamically.

Cut Switch Colour

This may be set to red or green. It will change dynamically.

Dim Switch Colour

This may be set to red or green. It will change dynamically.

Delay Switch Colour

This may be set to red or green. It will change dynamically.



Input Selected

This may be used to remotely select an input. Value between 1 and 8.

Cut Switch

Remote control of the speaker cut switch.

Dim Switch

Remote control of the speaker dim switch.

Delay Switch

Remote control of the delay switch.

Analogue Input

This selects which key is assigned to the XLR analogue inputs on the rear. Input '0' to de-assign completely.

Delay

Select delay in frames. 0 = no delay. Delay is only active when the delay button is on.

Input Levels

These may be used to individually adjust input levels of Dante or the analogue audio sources. Range is -12 to +12dB.

GPI D9 Pinouts

Short Pins 1 and 6 to activate Cut

Short Pins 2 and 7 to activate Dim

Sample rate

The DPM802 may be set to operate at sample rates of 44.1 or 48kHz, 16 or 24 bit via Dante Controller.

Mechanical

1RU high x 150mm

Weight 0.6 kilos

All aluminium case.