

Appendix 2

DANTE Setup

All **MARANI MDA kEM** Series amplifiers feature a Dante card which can be set up to send and receive audio on a Dante network. This type of connection utilises standard IP networks to transmit high-quality, uncompressed audio.

The configuration and routing of MDA kEM amplifiers in a Dante network is entirely done via the software application 'Dante Controller', provided by Audinate. Free download versions of the software are available for 'Windows' and 'Mac OS X' directly on Audinate's website.

Connecting MARANI MDA kEM series Amplifiers to a Dante Network

Physical connection to a Dante network is done via regular Cat5e (or higher) wiring.

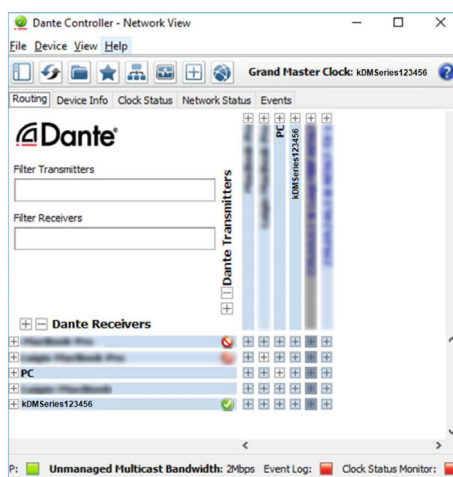
If a switch is used, special attention should be given to its capabilities, as some products are not compatible with Dante Networks.

In order to get maximum reliability, the network switches shall:

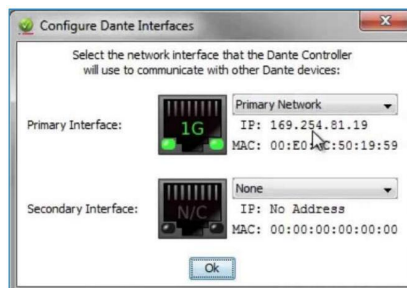
- * be Rated for Gigabit Ethernet;
- * be Non-blocking;
- * have Quality of Service (QoS) with at least four queues;
- * have Diffserv (DSCP) QoS with strict priority; and not have or have EEE (Energy efficient Ethernet) switched off.

For more information on switch requirements for Dante compatibility, and on how to create and manage Dante networks, please refer to Audinate's website.

When opening the 'Dante Controller', all devices connected to the Dante network will be displayed in the list of transmitters and receivers.



If the computer in use features multiple network ports, in some instances, 'Dante Controller' may connect to the wrong one. To overcome this issue, click on the square next to 'P:' at the bottom left corner of the 'Network View' window. This will open the Dante interface configuration window, from where the correct port can be selected



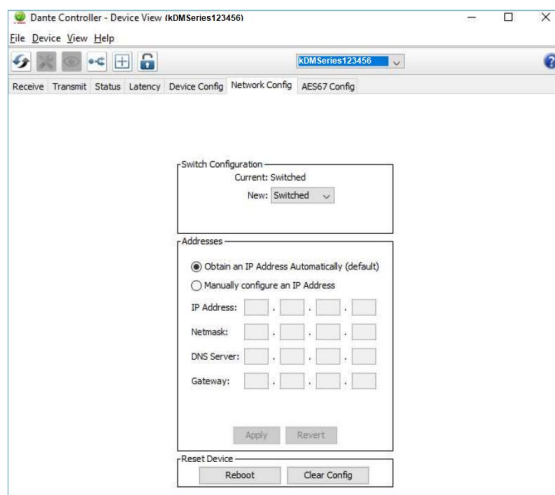
MARANI MDA kEM Series amplifiers connected to the Dante network will automatically obtain IP addresses by default, and in most circumstances, there is no need to change the address settings. However, static IP addresses can be assigned if necessary.

To assign a static IP address:

1. Open the 'Device View' window by double-clicking on the device to be configured.
2. Click on the 'Network Config' tab
3. Under 'Addresses' switch to the option 'Manually configure an IP Address'
4. Enter the IP Address and Netmask.
5. Click 'Apply'

The DNS Server and Gateway settings are optional - the device will use network defaults if they are not specified. To revert to the previous settings, click 'Revert'.

It is important to note that this operation requires a device reboot. This can be done by simply clicking 'Reboot' under 'Reset Device'. However, in some instances, it has been verified that a manual reboot of the amplifier is necessary for modifications to take effect and is therefore recommended as best practice.



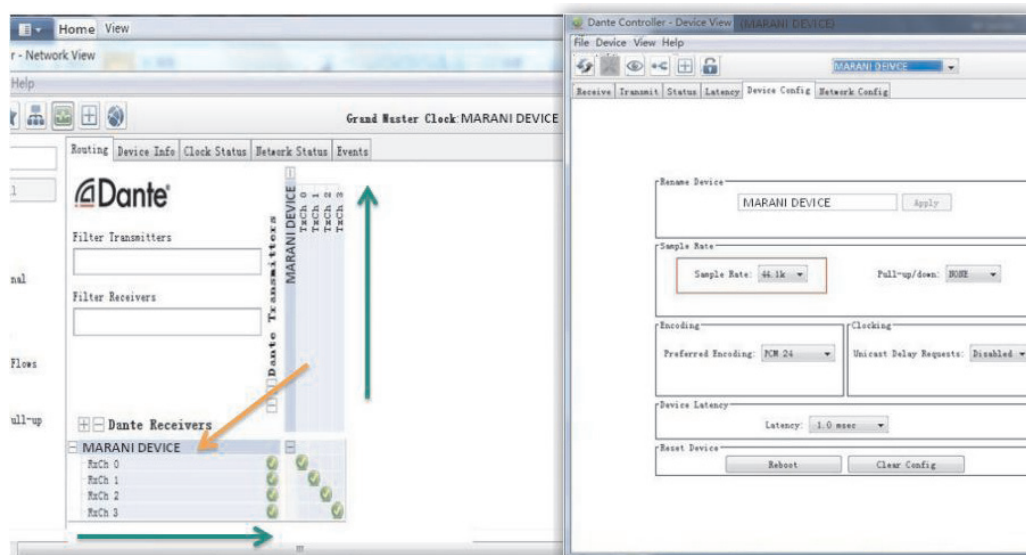
Please note that when **MARANI MDA kEM** amplifiers are set to automatically obtain IP addresses, Dante Controller must be running on a host computer also configured to obtain IP addresses automatically. Likewise, for static IP address configurations, fixed IP addresses must be assigned to both host computer and amplifier, with both devices operating within the same subnet.

Digital power amplifier MDA-kEM series

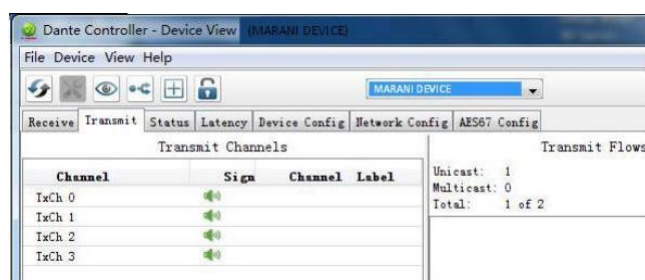


Routing setting Example

Given in example **MARANI DEVICE** as unit to rout...



Double click the **MARANI DEVICE**, Will show the window as below: you can see the small green speaker indicating that the signal from the MARANI DEVICE is entering the DANTE board.



The Dante board with dual network ports can see the signal in the Receive submenu of the sub-window and can rout it to the next machine.



Note: in the "Device Config" menu must be consistent which means that if a Device A is set at 96kHz (DANTE gives available as sampling frequencies options) a Device B must also be set at 96kHz; if they are inconsistent, the routing cannot be performed in the main window.