



Dante Interface X Quick Start Guide

Dante Interface X

Quick Start Guide

The Green-GO Dante Interface X allows you to interface with external Dante Audio systems. The Dante interface will directly convert digital audio streams from Dante or AES67 to Green-GO and vice-versa, without the conversion losses that occur during analog to digital (and contrary) conversion

This is ideal for purposes like program audio and announcements or complete user-based engines with 32 channels, program audio-, announcement- and emergency-channels.

The Dante connections are managed with the Dante Controller. For more information on setting up the dante streams please visit

<https://www.audinate.com/resources/training-and-tutorials>

Features

- 4x User or Line IN/OUT based ports
- 4x Dante stream in
- 4x Dante stream out
- 2x etherCON RJ45 port – Green-GO
- 2x etherCON RJ45 port – Dante
- 2.2-inch color display
- Powered by PoE (802.3af-2003 standard).

Setup menu navigation

Pressing the encoder will open the setup menu of the Green-GO Dante Interface X. Once in the menu, the encoder will allow you to navigate through the menu and set a parameter. Pushing the encoder will confirm your selection.

Setup menu overview

The setup menu offers a range of different settings to modify your device. The menu sections and their supplementary options are described in detail below.

Set up a Dante connection

To Set up a Dante connection first select the mode to use. Select a port and scroll down to Set User/Mode.

Dante connection x

Set User/Mode:

- | | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Line in/out | → Set up this port as General-Purpose Input and Output. this mode is used for interfacing with more static systems like a program audio input which is always active or an external announcement speaker system |
| Mode: User | → Set this port as a full User based port. Audio can be sent to and from this port to other communication systems. Select one of the users from the current config to load all channel settings for this user. |

Set up a Dante connection as General-purpose line In/Out

Set up a Dante connection as General-purpose Line in/out. This is a simple Line in and out to feed Dante audio streams into and out of the Green-GO network. for example, Program audio or an Announcement system.

Mode: Line in/out

In → Set up the Input of this Dante connection.

Group → Select a group from your config to assign this input to

AutoGain → Set the dynamic amplification to avoid distortion. Available settings are Slow/Med/Fast/Off. If AutoGain is turned off the Max Gain becomes gain.

MaxGain → Set the maximum gain of the input signal - range is from -12 to 28 dB.

Threshold → Set the gate function for this input. The threshold is the level required for the input signal to be transmitted – editable range is from -45 to -20dB or turned Off.

Hold → Set up the Gate hold time for this input. Options: Fast / Med / Long / XLong

Bandwidth → Set up the used bandwidth for this input

Normal → 7kHz bandwidth is used for this input

Enhanced → 14kHz bandwidth is used for this input

In → Set up the input source for this input. Line (Dante) or a 125 Hz to 4kHz test tone

Out → Set up the output of this Dante connection.

Group → Select a group from the config to assign the output to

Output → Set the output level of the Line Output. Available range is MUTE, -42 to 6 dB.

LoopBack → Set the level of the LoopBack from 0 to -39 dB or turn it off

Set up a Dante connection as User based port

Set up a Dante connection as User based Audio in and output. Audio can be sent from and received by multiple channels simultaneously. Routing, cues and calls can be triggered via GPIO.

Mode: User

Channels → Set up and alter individual channels for this Dante connection.

1-32 → Select one of the 32 available channel to assign a user or group to.

ID → ID of the user or group assigned to the channel

Group → Assign a group to the channel

User → Assign a user to the channel

None → Remove assigned group/user from the channel

Set Label → Set a different label for the channel

Group → Select a group label

User → Select a user label

Clear → Clear the label set

Talk → For Future Use

Disable → talk is disabled for this channel

Momentary → talk is enabled as long as a corresponding trigger is active

Latch → talk is toggled between enabled or disabled when a trigger becomes active

Latch/Momentary → A combination of latch and momentary. A short activation will toggle the Latch and a long activation will act Momentary.

Listen → Toggle the Listen on this channel on or off.

Volume → Set the volume for this channel. The range -24 dB through 12 dB.

Priority → Set the priority level of the channel - see also **Priority dim** in the Options menu

Call Send → For Future Use

Call Receive → For Future Use

Bandwidth → Set up the used bandwidth for this input

Normal → 7kHz bandwidth is used for this input

Enhanced → 14kHz bandwidth is used for this input

An → Assign group to be handled as Announce Channel

Em → Assign group to be handled as Emergency Channel

Program Audio → Set up the Program Audio channel for this Dante connection.

Mode → Select Normal or Local IFB. Normal mode will allow you to select.

one of the available Groups in the Green-GO network on the Program audio channel. Local IFB will send the input of the Dante connection to the Program audio of this port. This audio stream is not Available on the Green-GO network.

Src → Select the Group as program audio source. Not available in Local IFB

Vol → Set the volume of the program audio. Range is Mute, -36 dB through 12 dB

Dim → This will Attenuate the program audio whenever one of the Channels including announcement and emergency is active. Range is from 0 dB to -24 dB and MUTE option.

Audio In/Out

Output → Set the output level of the Dante Output. Range is MUTE, -42 to 6 dB.

LoopBack → Set the ratio of audio feed back from the input back to the output. range is 0 to -39 dB or turned off.

AutoGain → Set the dynamic amplification to avoid distortion. Available settings are Slow/Med/Fast/Off. If AutoGain is turned off the Max Gain becomes gain.

MaxGain → Set the maximum gain of the input signal - range is from -12 to 28 dB.

Threshold → Set the gate function for this input. the threshold is the level required for the input signal to be transmitted – editable range is from -45 to -20dB or turned Off.

Hold → Set up the Gate hold time for this input. Options: Fast/Med/Long/XLong

In → Set up the input source for this input. Line In or a 125 Hz to 4 kHz test tone

Set up Port Options

Generic port setup is done in the options menu, including active channel priority and cue/call volumes

Options → Set up port specific settings

- Active Time** → Set the time for a channel to be active after the last audio activity. Range is from 0.5 to 45.0 seconds.
- Tone** → Set the level of the audio signal used for Alert, Cue and Connection status. Range is MAX, -1dB to -48dB, MUTE.
- Priority Dim** → Set Attenuation of a lower priority channel if a higher priority channel becomes active. Range is 0dB to -24db, MUTE.
- Direct Priority** → Set priority for direct channels; Low / Normal / High
- Direct Volume** → Set volume for direct channels. Range is 12db to -36dB, MUTE.
- AutoTalk** → Enable AutoTalk on channel 1 through 32 or turn it off.
When AutoTalk is activated, available audio will be sent to the selected channel
- Cue Mode** → Set up the way the port responds to Cues.
 - Normal** → the port does not reply to a incoming call
 - Auto answer** → the port automatically replies with a Hold to a call
 - Ignore** → the port ignores incoming calls

Set up the connection type of a Dante connection

Connection → Set up the connection for this Dante connection

- Local connection** → Set up this port as a normal Green-Go device in a local network.
- Remote connection** → Set up this port as the passive side of a bridge connection.
 - Password** → Set up a password for this connection. The password needs to be identical on both sides of the connection. and is always 8 characters long.
 - Generate Password** → Automatically generate a random 8-character password
 - Local Port** → Set up a TCP port for the connection. This port needs to be the same on both sides of the connection. A different and free port needs to be used for each connection
 - SndBuf** → Set up the size of the audio packages being sent from this port. A connection with high jitter in latency needs a larger Buffer
 - RecvBuf** → Set up the size of the buffer for the incoming audio packages. A connection with high jitter in latency needs a larger Buffer
- Save** → Save all changes made on this port connection, This will cause a reboot of the device.
- Cancel** → Discard all changes made on this port connection

Generic device settings

Configuration cloning

All devices on the local Green-GO network need to have the same configuration to be able to communicate with each other.

- Clone Config** → Clone a configuration file from the network
 - Configuration File A → Load configuration file A
 - Configuration File B → Load configuration file B
 - etc.
- Factory Default** → Load the factory default configuration file

Set up Network

In the Network menu you can set up the Network setting of the Internal Green-GO network.

- Dynamic** → Select the connection mode.
 - ON** → Use a dynamic IP. If an DHCP server is on the network this will supply an IP address to the device. If there is no DHCP server the device will self-assign a Link local IP.
 - OFF** → Use a static IP
 - IP address** → Set the IP address to be used
 - Netmask** → Set the netmask to be used
 - Gateway** → Set the gateway to be used
- Save** → Save the current network setup
- Cancel** → Discard current network changes

Device options

Device specific settings can be modified in this menu.

Device Options

- Exit** →
- Backlight** → Set the time out of the display. Always on, or a range from 10 seconds through 4 hours.
- Display** → Set the Intensity of the display to dark or bright.

Device information

Info → Shows general information about the Dante Interface X

Config : → The current config of the Dante Interface X

SN: xxx → Serial number of the Dante Interface X

Dante interface 4a61 → Firmware information

Dante interface 4a61 → Firmware version

Nov 16 2018 → Date of firmware build

09:32:09 → Time of firmware build

IP: xxx.xxx.xxx.xxx → IP address of the Dante Interface X

Mac: xx:xx:xx:xx:xx:xx → Mac address of the Dante Interface X

Reset All Settings → Resets all IP, Audio, User and Channel settings
(configuration file is not changed)

Technical specifications

Power: Power over Ethernet (IEEE 802.3af)
Dimensions: 483mm (19") x 44mm (1U) x 165 mm
Weight: 2480 gr.

General safety instructions

Read all instructions - especially the safety requirements - in the user manual before use. Save these instructions - the safety and operating instructions should be retained for future reference. Carefully follow all instructions.

Cleaning

Disconnect all connected supply and signal cables before cleaning the unit. Clean with a dry cloth. Do not use any liquids or aerosols on the unit.

Usage

Do not use the unit near water or moisture. - Do not block any ventilation openings, they are necessary for the essential airflow within the unit and protect it against overheating. - Install in accordance with the manufacturer's instructions. - Do not insert any objects through the ventilation slots of the unit, as these could come in contact with live parts or could cause short circuits. This could cause electric shock and/or fire. - Do not install near any heat sources such as radiators, stoves or other apparatus (including amplifiers) that produce heat. - Unplug this apparatus during lightning storms or when unused for long periods of time. Do not place the unit on unstable surfaces.

Servicing

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way such as; damage to the power supply cord or plug, spillage of liquids, objects falling into the apparatus, exposure to rain or moisture, abnormal operation or falling damage. In all of the previous conditions, disconnect the main plug immediately and call your distributor or technical support!

WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE**

We,

Manufacturers name: ELC lighting b.v.

Manufacturers address: Weerijds 8
5422 WV Gemert
the Netherlands

Herewith take the full responsibility to confirm that the product

Product Category: Communication equipment

Name of product: Dante Interface X

Which refer to this declaration are manufactured in the Netherlands and complies with the following product specifications and harmonized standards:

Safety : LVD (Low Voltage Directive) 2014/35/EU, EN62368-1

EMC : 2014/30/EG, EN55032

ROHS (II): 2011/65/EU

With the presumption that the equipment is used and connected according to the manual, supplied with the equipment. All signal input- and output connections must be shielded and the shielding must be connected to the ground of the corresponding plug.

Gemert, 21 mei 2019

ing. Joost van Eenbergen

