EXPRESS *IP*

MINI X

COMPACT DANTE®/ AES67 NETWORK AUDIO COMMENTATOR UNIT

PRODUCT DETAILS

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Glensound **Glensound Electronics Ltd**

Thank you for choosing a new Glensound product.

All rights reserved.

Information contained in this manual is subject to change without notice, if in doubt please contact us for the latest product information.

If you need any help with the product then we can be contacted at:

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IMPORTANT SAFETY INSTRUCTIONS

Read this safety sheet prior to installation or initial use. This generic safety sheet covers multiple product configurations across our range. The full operating & installation manual and model-specific technical specifications are available online at: www.glensound.com

DANGEROUS VOLTAGE: This symbol is intended to warn that dangerous voltages within the product are present and constitute a risk of electric shock.	IMPORTANT INSTRUCTIONS: This symbol is intended to highlight that there are important operating, installation, and maintenance instructions in the literature accompanying this unit.
THIS UNIT MUST BE EARTHED (Class I Mains Models): English: This symbol highlights that the equipment must have a valid earth connection with the protective earthing conductor. Danish: *Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord.* Finnish: *Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.* Norwegian: *Apparatet må tilkoples jordet stikkontakt.* Swedish: *Apparaten skall anslutas till jordat uttag.*	**CAUTION – SHOCK HAZARD: DISCONNECT ALL POWER SOURCES:** This symbol warns that the product can be energised simultaneously from more than one power source (e.g., dual AC mains supplies, external DC power, and/or PoE). Care must be taken if accessing internal components. Ensure that ALL connected power supplies are fully disconnected.

1. Read & Keep Instructions: Read these instructions, keep these instructions, heed all warnings, and follow all instructions.

2. Indoor Use & Moisture: Unless otherwise specified in the model-specific manual, this product is intended for indoor use only. Do not use this apparatus near water, and do not expose this product to rain or moisture.

3. Ambient Temperature: The intended ambient operating temperature of this product is 0°C to 40°C (or 0°C to 50°C where specified in the model-specific technical specifications in the online user manual).

4. Cleaning & Heat Sources: Clean only with a dry cloth. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

5. Cable & Cord Protection: Protect all power cords and network cables from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

CAUTION
RISK OF ELECTRICAL SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

6. Attachments & Lightning: Only use attachments/accessories specified or supplied by the manufacturer. Unplug this apparatus during lightning storms or when unused for long periods of time.

7. Servicing & No User-Serviceable Parts: The product contains no user-serviceable parts and must not be disassembled or modified in any way. Doing so could result in personal injury and/or product failure. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when a power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

8. Professional Environment: This equipment is not suitable for use in locations where children are likely to be present.

POWER SUPPLY & DISCONNECT INSTRUCTIONS (APPLICABLE BY MODEL CONFIGURATION)

9. Simultaneous / Redundant Power Sources (Mains, DC & PoE): Depending on the model, this product may be powered by a single source or simultaneously by multiple redundant power sources (dual AC mains inlets, an AC mains inlet, an external DC power input, and/or Power over Ethernet [PoE]). Disconnecting a single power lead will NOT isolate the unit if another power source remains connected. To completely de-energize the equipment, unplug ALL connected AC mains cords, DC barrel jack/external DC connectors, and PoE RJ45/etherCON network cables.

10. AC Mains Disconnect Devices (Single or Dual IEC Inlets): Where AC mains inlets are fitted, the mains plug(s) and rear-panel IEC appliance coupler(s) serve as the disconnect device(s). On dual-mains models, both mains' cords must be unplugged to isolate the unit from AC mains power. The socket-outlet(s) used for mains power must be installed near the equipment and be easily accessible.

11. Plug Grounding & Polarization (AC Mains Models): Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has 2 blades with one wider than the other. A grounding-type plug has 2 blades and a third grounding prong provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

12. Approved Detachable Earthed Mains Cords (Class I AC Mains Models): Use only approved detachable 3-core earthed mains cords (minimum H05VV-F 3G0.75 mm² with IEC 60320-1 C13 connector) rated for the country of installation: • United Kingdom: Use a BS 1363-1 approved molded plug fitted with a 5 A ASTA-approved BS 1362 fuse. • European Union: Use a CEE 7/7 (Schuko/French) earthed plug. • Denmark: When connecting to wall socket-outlets in Denmark, use an approved 3-pin earthed plug complying with DS 60884-2-D1 (Standard Sheet DK 2-1a) to ensure protective earthing is maintained. • USA/Canada: Use a UL-listed / CSA-certified 3-conductor grounding power cord [minimum 18 AWG, SVT/SJT] with a NEMA 5-15P plug. • All other regions: Use a nationally safety-approved 3-core earthed mains cord rated for the country of installation.

13. Internal Primary Fusing & Neutral Fusing Warning (AC Mains Models – Service Personnel Only): Internal primary fuse(s) are located between the Live terminal of the IEC inlet and the Live input of the power supply and should only be changed by a qualified service engineer using a correctly rated replacement as specified in the product handbook. WARNING – Neutral Fusing: Because the AC mains plug may be reversible in some electrical distribution systems, the internal primary fuse may be located in the neutral conductor. Always disconnect all AC mains power cords completely from the IEC inlet(s) to de-energize all phase conductors before opening the enclosure or servicing the unit.

14. Power over Ethernet (PoE) Models: Unplugging the RJ45 / etherCON network cable disconnects PoE power from the unit. The Ethernet cable intended to be connected to the unit is for indoor building routing only and must not exit the building structure without appropriate primary surge protection.

15. External DC / USB Power Input Models: Connect only the manufacturer-supplied AC/DC power adaptor (where provided), or a safety-approved external DC or USB power supply complying with BS EN IEC 62368-1 (classified as ES1 and PS2/Limited Power Source [LPS]) that matches the voltage, minimum current rating, and pin polarity marked adjacent to the DC/USB input connector or specified in the product manual. The external power adaptor plug and the DC/USB input connector serve as the DC disconnect devices and must remain readily accessible; unplugging the DC/USB connector disconnects external DC power only and will not isolate the unit if AC mains or PoE remains connected.



INSTALLATION, THERMAL, MECHANICAL & OPTICAL SAFETY (APPLICABLE BY MODEL CONFIGURATION)

16. Ventilation & Sealed Heatsink Enclosures: Do not block any ventilation openings; install in accordance with the manufacturer's instructions. On models where the aluminum enclosure acts as the units heatsink, do not cover the unit or speaker grille with soft furnishings, cloths, or curtains, and allow free airflow around the housing.

17. 19-Inch Equipment Rack Installation (Rack-Mount Models): Rack-mounted models are designed for stationary installation in a standard 19-inch equipment rack. Secure the unit to the front rack rails using all four mounting holes on the integral rack ears with appropriate rack screws (e.g., M6 screws and cage nuts). Ensure that ventilation openings on the chassis are not obstructed by rack walls or cabling.

18. Carts, Stands, Brackets & Tip-Over Hazard: Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

19. Optical SFP Transceiver Modules (Where fitted): Any optical SFP transceiver modules installed in this product must be certified Class 1 Laser Products in accordance with IEC/EN 60825-1. Do not look directly into open optical ports or fiber-optic cable ends while the equipment is energized.



Disposal (WEEE): the crossed-out wheeled bin symbol means this product must not be disposed of with household waste. Take it to an approved electrical and electronic equipment recycling point, or contact Glensound for advice.
Declaration of conformity: Glensound declares that this product complies with the applicable UK and EU legislation. The full declaration of conformity is available at www.glensound.com.
Manufacturer: Glensound Electronics Ltd, The Design Buildings, 6 Brooks Place, Maidstone, Kent, ME14 1HE, UK · Tel: +44 (0)1622 753662 · Email: sales@glensound.com · www.glensound.com

PRODUCT WARRANTY

All equipment is fully tested before dispatch and carefully designed to provide you with trouble free use for many years.

We have a policy of supporting products for as long as possible and guarantee to be able to support your product for a minimum of 10 years.

For a period of one year after the goods have been dispatched the Company will guarantee the goods against any defect developing after proper use providing such defects arise solely from faulty materials or workmanship and that the Customer shall return the goods to the Company's works or their local dealer.

All non-wear parts are guaranteed for 2 years after dispatch and any defect developing after proper use from faulty materials or workmanship will be repaired under this warranty providing the Customer returns the goods to the Company's works or their local dealer.

CE

EU DECLARATION OF CONFORMITY FOR:

EXPRESS *IP* MINI X
DANTE®/ AES67 NETWORK AUDIO COMMENTATOR UNIT

This declaration of conformity is issued under the sole responsibility of the manufacturer.

This equipment is manufactured by Glensound Electronics Ltd of Brooks Place Maidstone Kent ME14 1HE is CE marked and conforms to the following Union harmonization legislation:

Emissions:	BS EN55032:2015
Immunity:	BS EN55035:2017

Signed for and on behalf of Glensound Electronics Ltd.



Marc Wilson, Managing Director
Maidstone, Kent, England
Date:06/03/2025

ROHS DIRECTIVE

RoHS 2 Directive 2011/65/EU restricts the use of the hazardous substances listed below in electrical and electronic equipment.

This product conforms to the above directive and for these purposes, the maximum concentration values of the restricted substances by weight in homogenous materials are:

Lead	0.1%
Mercury	0.1%
Hexavalent Chromium	0.1%
Polybrominated Biphenyls	0.1%
Polybrominated Diphenyl Ethers	0.1%
Cadmium	0.01%

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT REGULATIONS 2006 (WEEE)

Glensound Electronics Ltd is registered for business to business sales of WEEE in the UK our registration number is:

WEE/JJ0074UR

GLENSOUND EXPRESS*IP* MINI X MANUAL

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OVERVIEW

The Glensound Express*ip* MINI X is a compact two user commentary box providing all the basic functionality required for two commentators or announcers, where quick and easy setup and operation is important.

It is widely used for sports commentary, reporter interfacing at news events, or for studio based audio translation.

There are four audio inputs into the users' headphones for monitoring, and two talkback circuits. High quality mic amps are used, along with Glensound's Referee compressor/limiter system to help prevent overloading the input circuit.

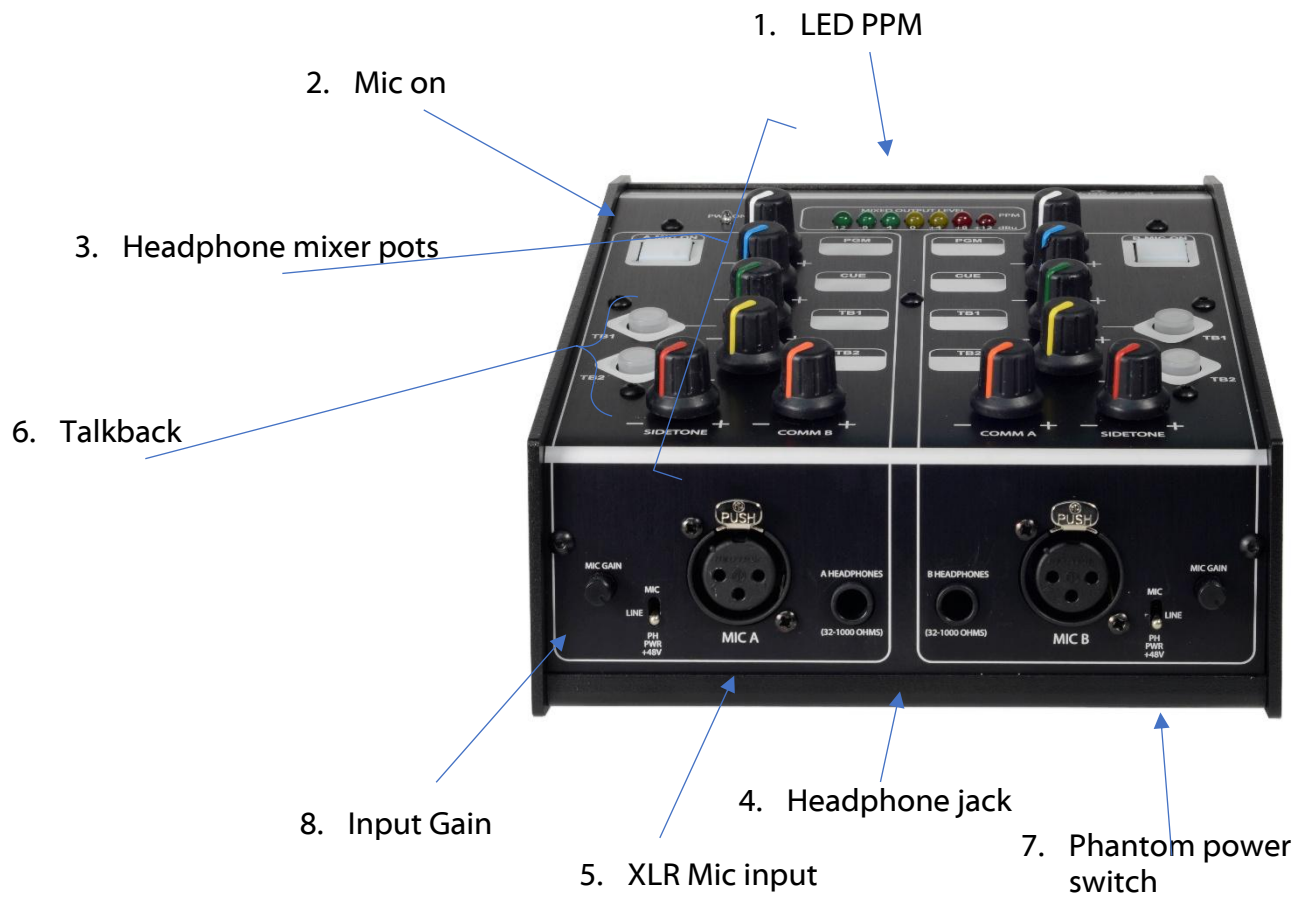
The Main audio input/output interfacing is provided via the Dante® system, allowing uncompressed, low delay audio across networks.

Dante® network audio is a common protocol for distributing high quality linear audio over standard IP networks and it is widely used by many audio equipment manufacturers.

The Express*ip* MINI X Dante® audio interface is compatible with all Dante® audio interfaces across all manufacturers. Further details of Dante® network audio can be found at www.audinate.com

The Express*ip* Mini X is also AES67 compliant.

EXPRESS^{IP} MINI X FRONT PANEL LAYOUT



1. **LED PPM Meter**

   The LED PPM Meter indicates the level of outgoing audio in dBu (whereby 0dBU = -18dBFs) the BBC 1 – 7 scale is also provided.

2. **Mic on button**

   Pressing this button routes the microphone to the programme audio output. It is a latching button by default but can be set to be always on, or a momentary mute when held down. More information can be found on page 15.

3. **Headphone mixer knobs**

   COMM B & A

   This pot adjusts the mic audio level of the opposing channel for the headphone output.

   SIDETONE

   This pot adjusts the level of the mic audio for the headphone output.

   PGM

   This pot adjusts the headphone level of the PGM audio signal which can be sent via Dante®.

   CUE

   This pot adjusts the headphone level of the CUE audio signal which can be sent via Dante®.

   TB 1

   This pot adjusts the headphone level of the Talkback 1 audio signal which can be sent via Dante®.

   TB 2

   This pot adjusts the headphone level of the Talkback 2 audio signal which can be sent via Dante®.

4. **Talkback buttons**

   Pressing either talkback 1 or talkback 2 mutes the microphone on the programme output, and routes the audio to the corresponding talkback output. The operation of this button is configurable into 4 modes (momentary, latching, intelligent, off). See page 15 for details.

5. **Headphone jack output**

   The 6.35mm jack socket allows 35 – 1000Ω impedance headphones using A/B gauge plug.

6. **XLR Mic input**

   The female 3 pin XLR socket allows microphones to be connected to the Express*IP* MINI.

7. **Phantom power switch**

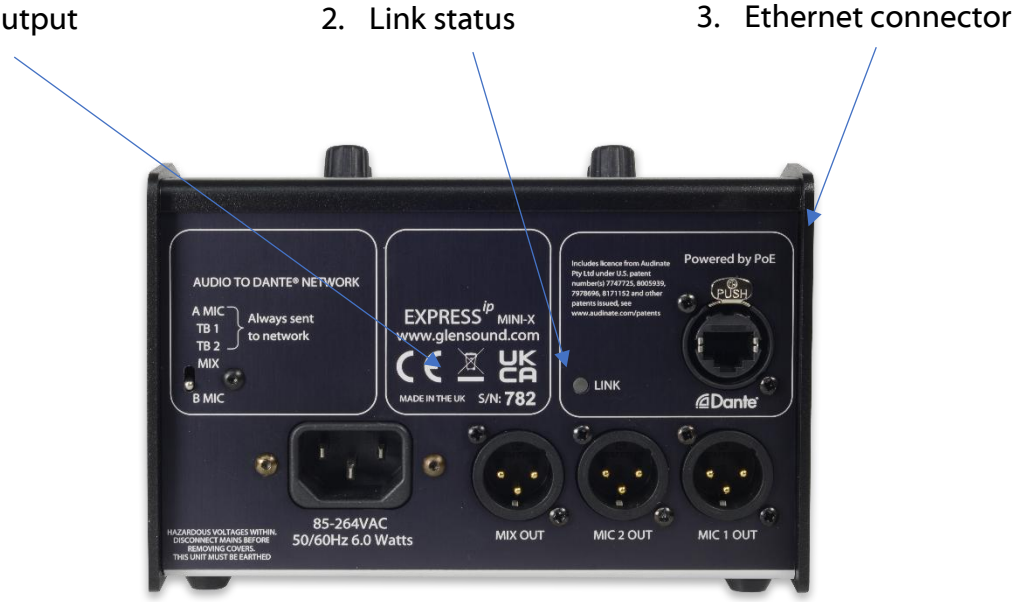
   This switch turns on or off +48v phantom power input for use with condenser microphones.

8. **Input Gain Control**

   Turning the input gain control clockwise increases the gain of the microphone amplifier and turning it counter clockwise reduces the gain. The control provides +10 to -20dB range from lineup.

EXPRESS*IP* MINI REAR PANEL LAYOUT

1. Mix Output
2. Link status
3. Ethernet connector



1. **Mix output selector**

   The Express*IP* MINI has 4 outputs: 2 mics and 2 talkback circuits. This is the maximum number of channels sent to the Dante® network. To provide a mixed output of both microphones, the B mic output can be changed to provide a mixed output using this switch.

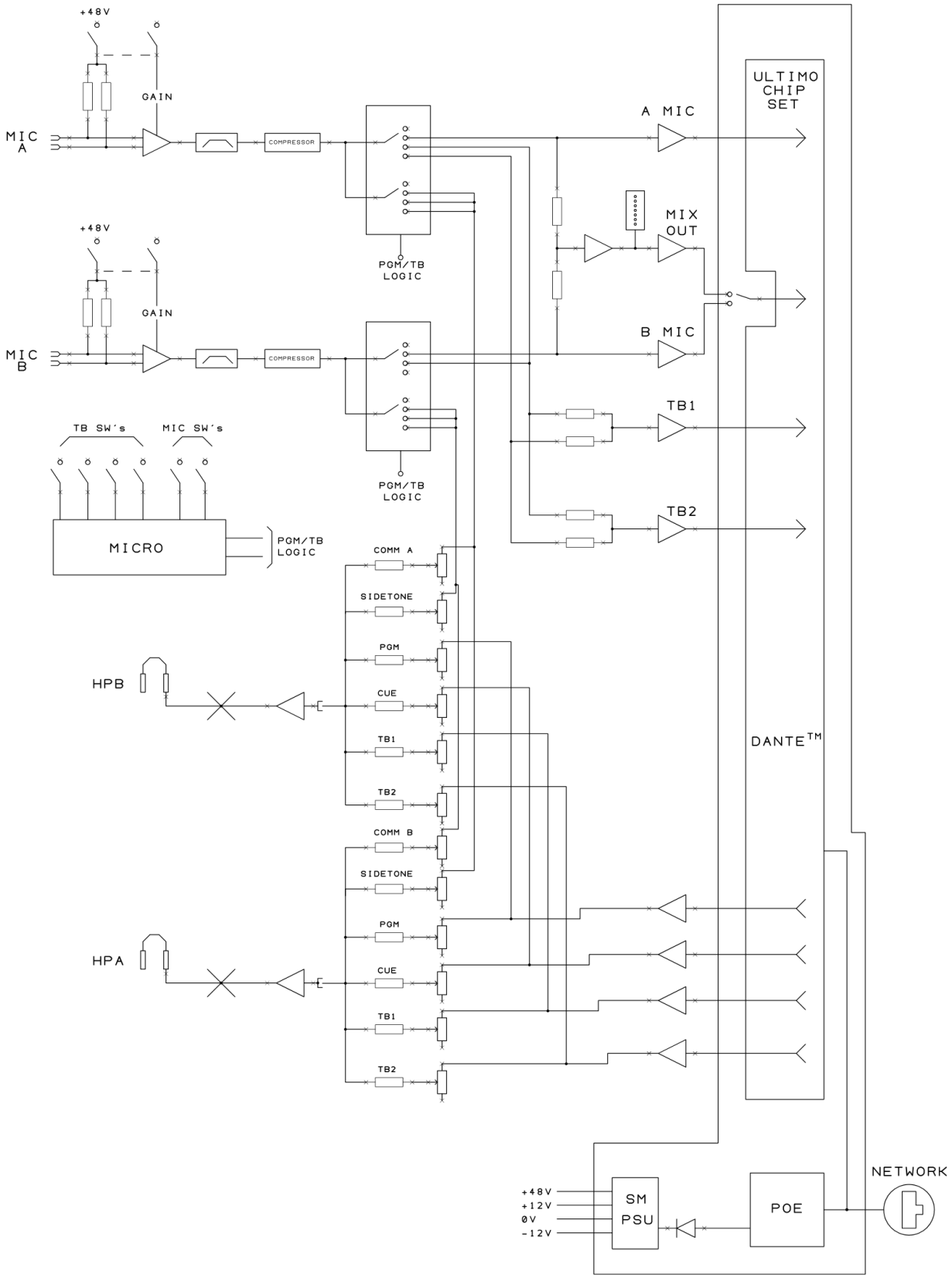
2. **Link status**

   This LED flashes to indicate that the device is connected to a network and communicating correctly.

3. **Ethernet connector**

   The RJ45 ethernet connector allows the unit to be connected to a Dante® audio network. The Express*IP* MINI may be powered by PoE if the network connection it is connected to supplies it. This connection operates at 100Mbps speed.

SIMPLIFIED BLOCK DIAGRAM



CONNECTING THE EXPRESS^{IP} MINI X TO A DANTE® NETWORK

The Express^{IP} MINI is a network audio device utilizing the reliable and versatile Dante® audio over IP protocol. Dante® is a widely used proprietary system made by Audinate.

For full details of the power of Dante® network audio and instructions for using it, visit www.audinate.com

Getting Dante® Controller

If you are connecting the Express^{IP} MINI to a new Dante® network the first thing you will need to do is to get the free Dante® controller software from Audinate.

This can be downloaded by visiting Audinate's web site at www.audinate.com

Connecting Express^{IP} MINI To the Network

The Express^{IP} MINI can be connected to the network that you are going to use for your audio distribution simply by plugging in either, and, or any of the network connections on the front panel. Once connected to the network it will be possible to see the Express^{IP} MINI from within the Dante® controller and route its' audio circuits.

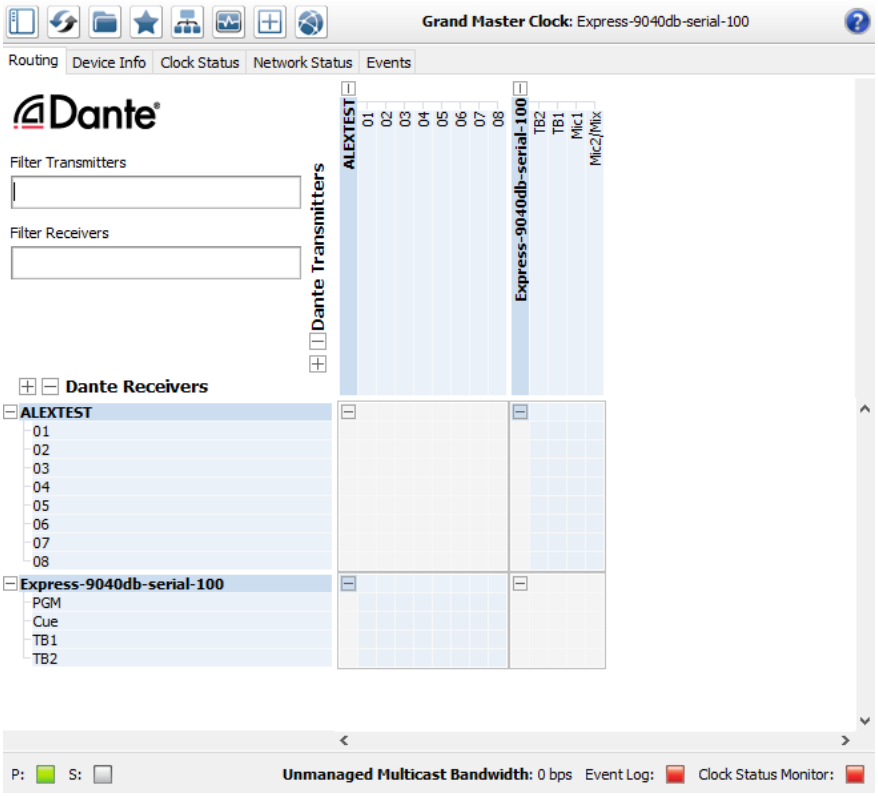
Audio Over IP Network

We strongly recommend that you consider your network topology carefully and would not recommend sharing broadcast audio and general data on the same network.

For more details of audio over IP network structure please visit www.audinate.com

Running Dante® Controller

At the time of writing this manual the Dante® Controller looks as per the screenshot below:



The Express*IP* MINI will have been named at the factory during test to allow them to be identified by the Dante® controller.

The format used for the factory name is:

'Express-SN-100'

Where 'Express' refers to the Glensound product Express IP Mini and 'SN-100' refers to the its serial number.

Dante® Controller TIP

If you have never run Dante® controller before then make sure that on the bottom left of the Dante® controllers' screen 'P' or 'S' is next to a green square as this indicates that it is connected to a network. By clicking 'P' or 'S' a pop up box opens to allow you to set what network interface the controller is using.

Device Not Showing Up In Dante® Controller

Overview

Dante devices that have been 'misplaced' are those that have been configured with a static IP address which falls outside the subnet that the Dante Controller computer is on (or more specifically, the subnet configured on the network interface which is selected in Dante Controller as the primary network interface).

Locating Misplaced Devices

Because Dante devices use MDNS multicast advertising, misplaced devices will always be visible in Dante Controller, if the computer is connected to the same physical network as the misplaced device.

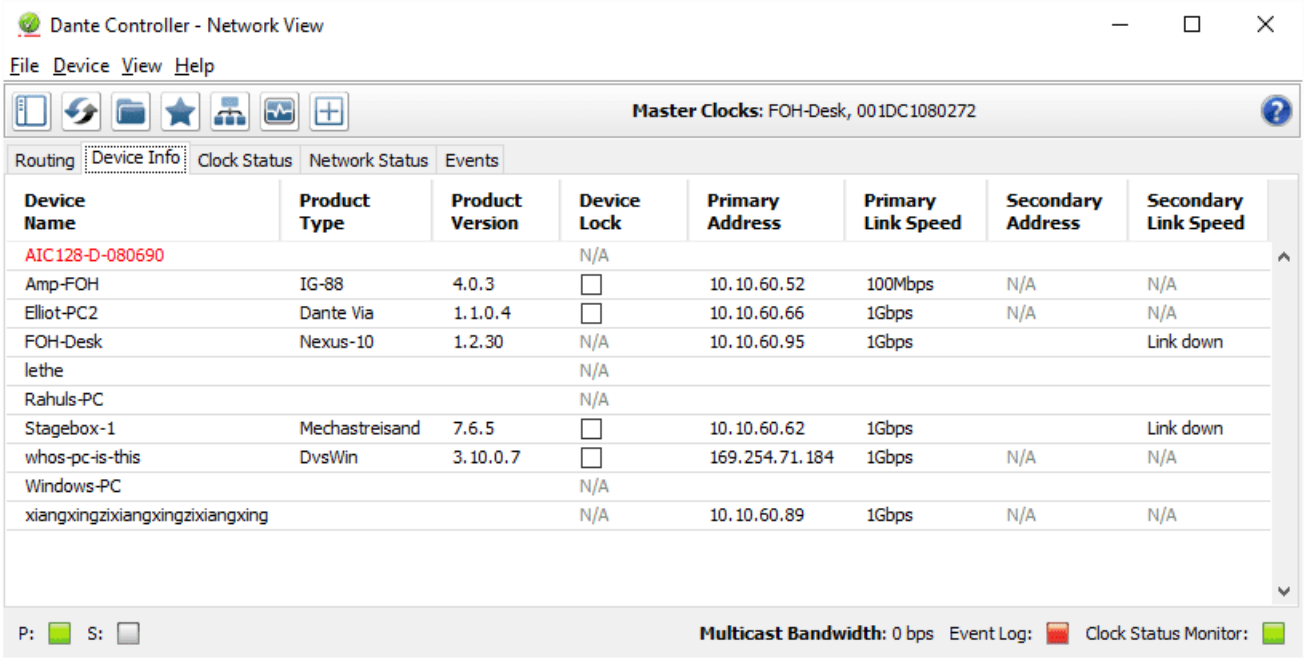
However, the misplaced device *and* the computer must be either:

Both using IP addresses inside the Link-Local address range (169.254.1.0 to 169.254.254.255 inclusive), or

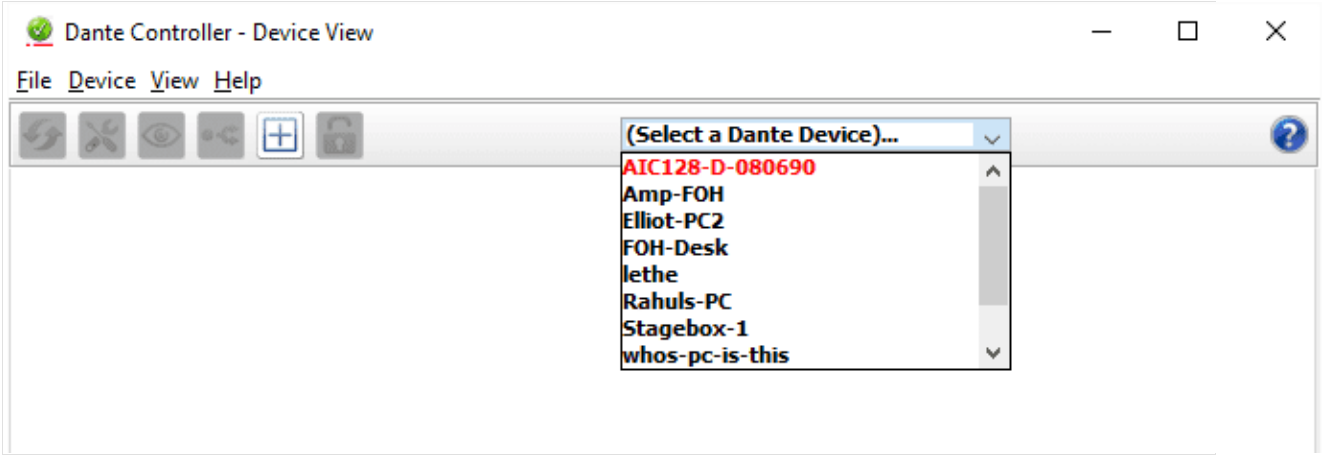
Both using IP addresses outside the Link-Local address range

First, assign a static IP address to your computer which is inside the Link-Local address range. If the device does not appear (as described below), assign an address which is outside the Link-Local address range and try again.

They will not appear in the Routing tab of the Network View, but they will appear (highlighted in red) in the Device Info, Clock Status and Network Status tabs of the Network View:



They will also appear (highlighted in red) in the device drop-down list in Device View (Ctrl + D):

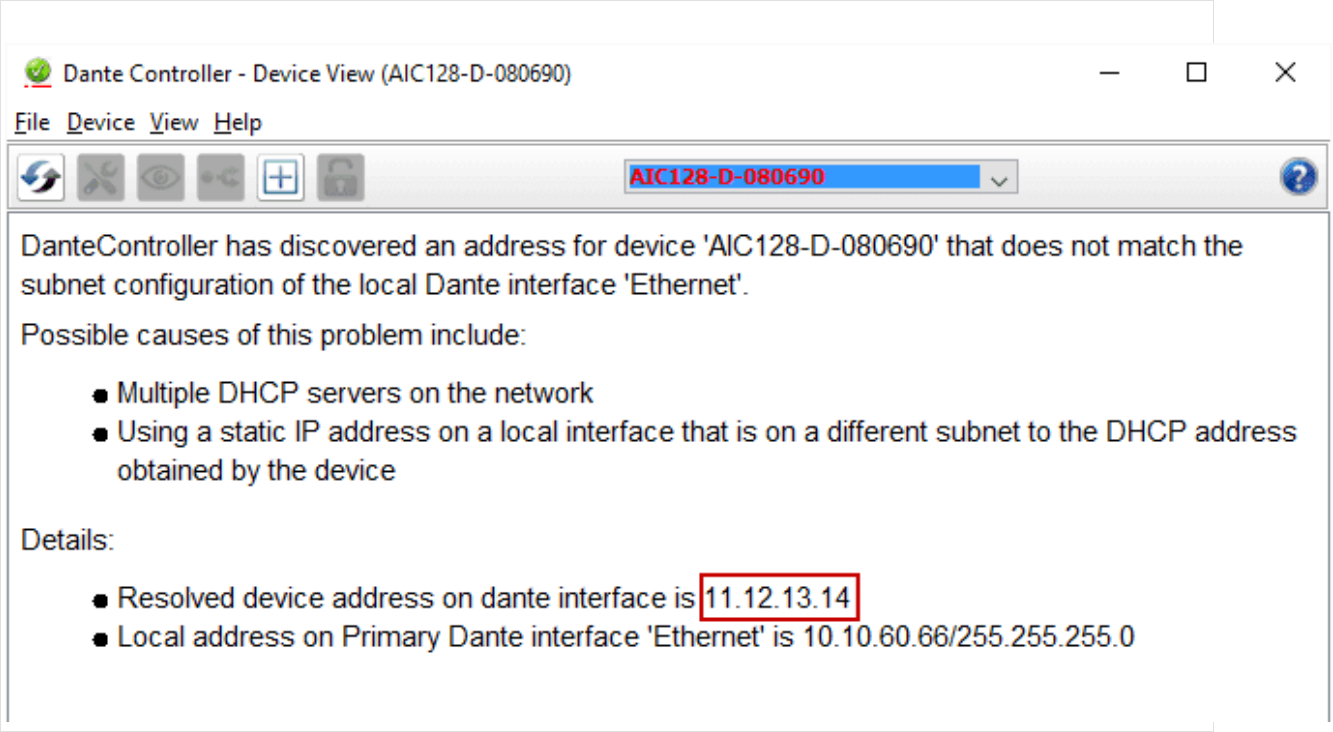


Recovering Misplaced Devices

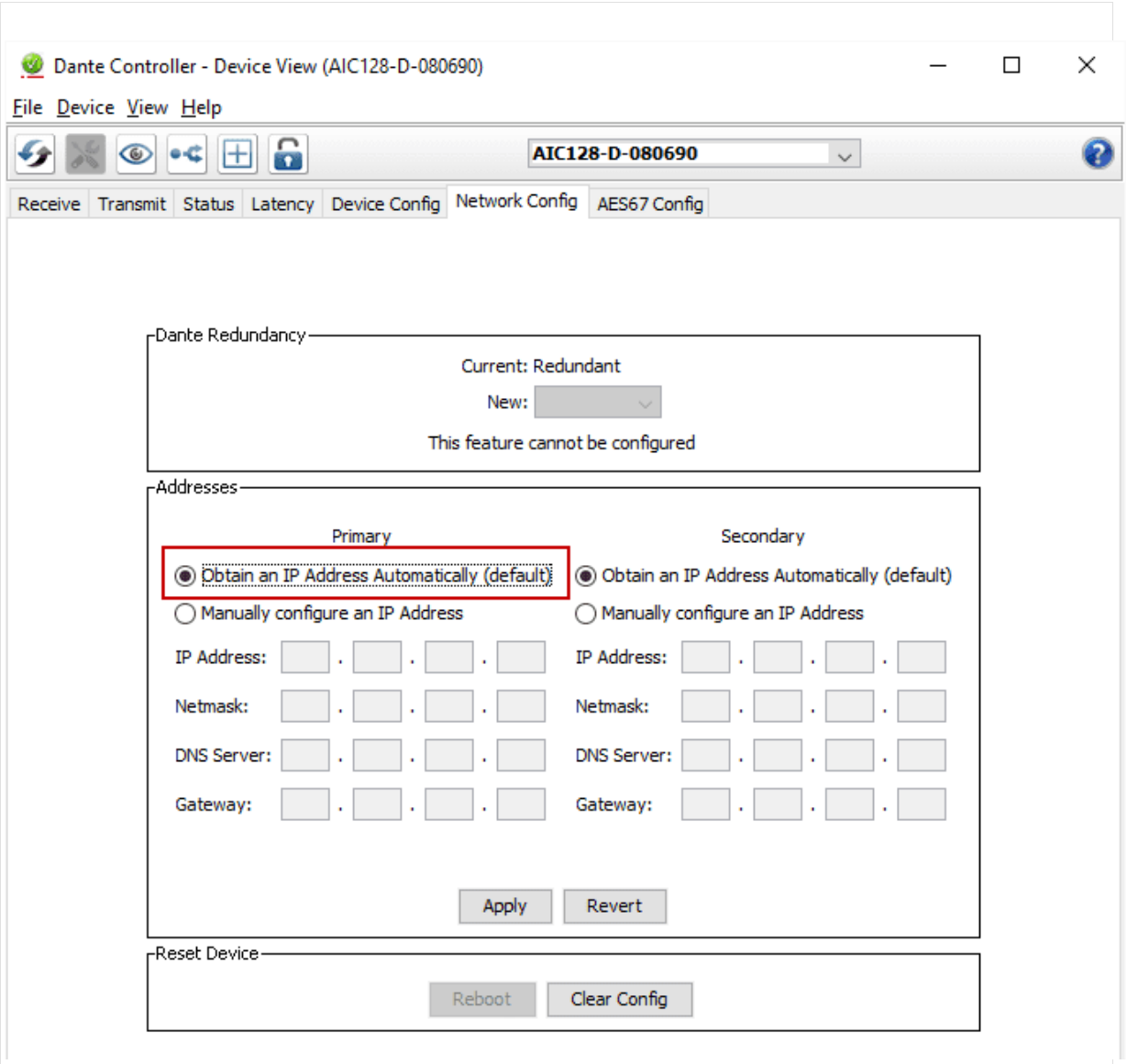
Note: 'Recovering' in this context is not the same as failsafe recovery.

To recover a misplaced device:

1. Ensure the computer running Dante Controller has an IP address outside the Link-Local address range (either set a static address, or use DHCP).
2. Open the device view for the device (either double-click the device in the Device Info, Clock Status or Network Status tabs, or open Device View and select the device from the drop-down list).



3. Record the IP address listed in the first line of the Details section (after 'Resolved device address on Dante interface is')
4. Configure your computer's network interface with a static IP address in the same range as the IP address for the device. It is recommended that you use the same values for the first three octets – in this example, that would be 11.12.13 – and then choose a different number for the last octet (e.g. 15). The operating system will provide a suitable subnet mask (the last octet must be zero, however). In Windows, you can tab to the 'Subnet mask' field to auto-populate the field.
5. Apply the changes to the computer's IP address, and return to Dante Controller. The device should now appear in the Routing tab of the Network View, and can be configured with a different address (or set to 'Obtain an IP Address Automatically') using the Network Config tab of the Device View.



6. Set the computer's network interface to obtain an IP address automatically (or restore it to its previous address).

The misplaced device will now appear in the main Dante network.

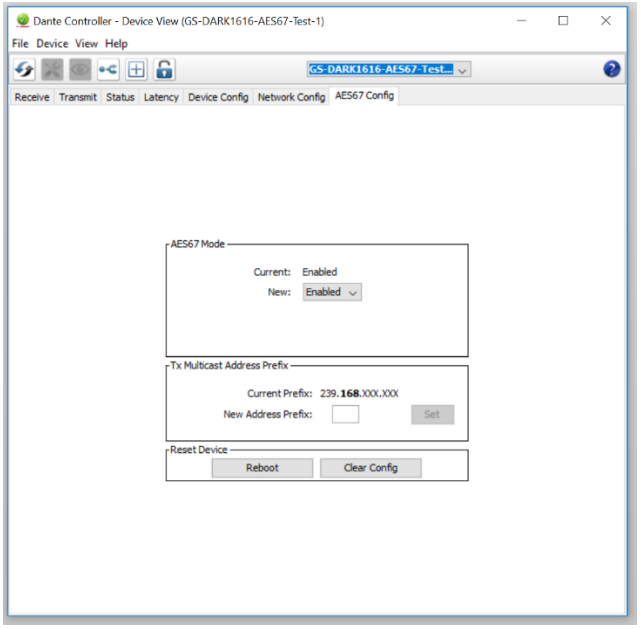
AES67 MODE

The Express^{ip} Mini X uses a chipset from Audinate called the Ultimo for its network audio interface. Audinate are the company behind Dante® and as such the chip's primary network audio protocol is Dante®, however Audinate have enabled their chip to comply with AES67 and therefore the Express^{ip} Mini X can be set to AES67 mode for interaction with other AES67 devices.

Please note however that Glensound are relying on Audinate's AES67 interface and are unfortunately not able to provide full AES67 support for the unit. AES67 support should be sought directly from Audinate.

1. **Turning On AES67 Mode**

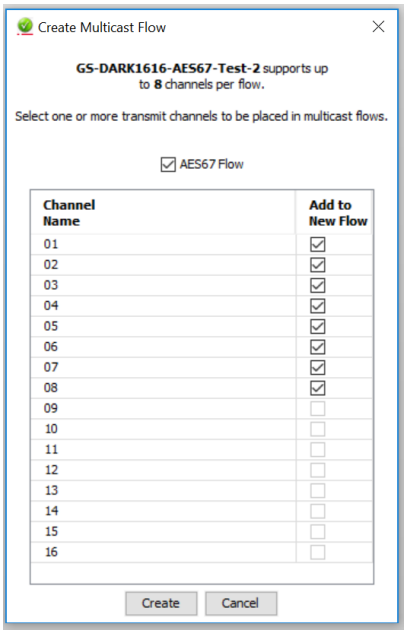
If you want to use your Express IP Mini X on an AES67 network and it has not been set to AES67 mode then this can be set in Dante® controller by double clicking the Paradiso to open the Device View window where you will find an AES67 tab to enable AES67 support.



Once the AES67 drop down box has been enabled you'll have to reboot the Paradiso for the change to take effect. After the reboot go back to the AES67 tab and set the multicast prefix address to one that is suitable for your newtork

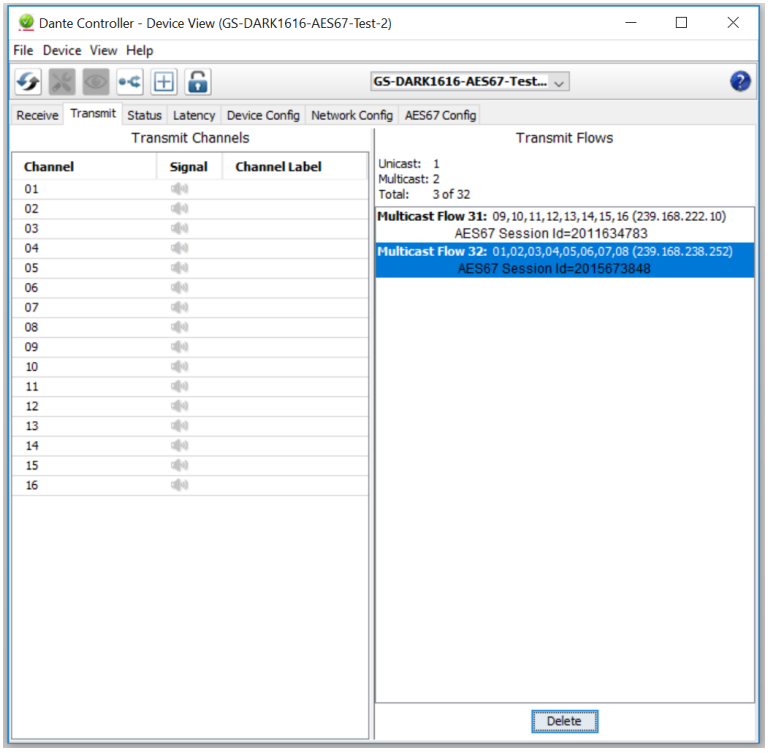
2. **Sending AES67 Audio**

To transmit AES67 audio to the network a multicast flow must first be setup. This is done by selecting the 'Create New Multicast Flow' Icon  in the Device View.



Tick the AES67 Flow check box, then select up to 8 channels to be included in the flow then click 'Create'

Once set the flows can be seen in the transmit tab of the device view.



3. **Receiving AES67 Audio**

Once a compatible AES67 stream is detected on the network by Dante® Controller the AES67 flows will appear in the Dante® Transmitters section in the Routing tab.

4. **AES67 Restrictions**

AES67 flows can only be generated with the following constraints:

- Multicast Only
- Non-redundant
- Destination address in range 239.nnn.0.0 to 239.nnn.255.255 (239.nnn/16), port 5004
- 48kHz sampling rate
- 24 bit linear (L24) encoding
- 1 msec packet time
- Up to 8 channels per stream

Received AES67 flows have the following constraints:

- Multicast Only
- Non-redundant
- Destination address in range 239.nnn.0.0 to 239.nnn.255.255 (239.nnn/16), port 5004. Must match destinatio address range.
- 48kHz sampling rate
- L16 or L24 encoding
- 125usec, 250usec, 333usec, 1 msec packet time
- Up to 8 channels per stream

BUTTON FUNCTIONALITY

Two modes are available for the channel on/ off button and 4 modes for the talkback button operation. After mode changes the selected configuration will be stored and reloaded when the Express^{ip} MINI X is next switched on.

To enter programming mode of the Express^{ip} MINI X:

1. Turn the Express^{ip} MINI X off.
2. Hold down the 'A MIC ON' and 'A-TB1' buttons.
3. While holding the above buttons downturn the Express^{ip} MINI X on.
4. Release the above buttons, you are now in programming mode.
5. While in programming mode the LEDs indicate the current setting.
6. To change a setting push the switch next to the LED.

After setting the desired mode, turn the Express^{ip} MINI X off, your new settings will now be ready next time the unit is turned on.

LED INDICATION OF MODES

A & B MIC ON

Each main mic on switch can be programmed independently. Two modes are available, toggle on/ off or momentary off (cough).

LED	SWITCH OPERATION
OFF	Momentary (Cough)
ON	Toggle On/ Off

TALKBACK SWITCHES

The operation of all the talkback switches must be identical. There are 4 different possible settings.

TB1 LED	TB2 LED	All TB SWITCH OPERATION
OFF	OFF	Toggle & Momentary (quick tap to toggle, press & hold for momentary)
OFF	ON	Toggle
ON	OFF	Momentary
ON	ON	Disabled

INTERPRETER MODE

It is possible to set the Express*ip* Mini to operate as a simple two language interpreter's unit.

If set to interpreter mode then A and B Mic On buttons latch and toggle on/off. TB1 buttons also latch and toggle on/off.

The MIC A & B buttons interact with their own channel's TB1 button, whereby a channel's Mic On and TB1 (on) button cannot both be on at the same time and pressing one while the other is active will cause them to toggle.

The above means that Mix Out would be used for language one and TB1 out would be used for language two.

TB2 button still works as an off air talkback channel and pressing it will automatically turn off either Mic ON or TB1 (on) if they were on, on the channel that TB2 has been operated on.

To enable the Interpreter mode then:

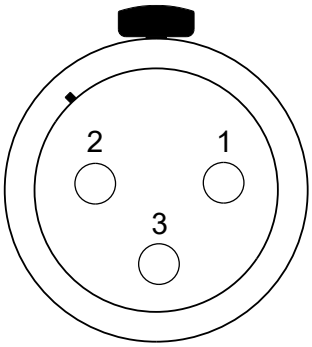
1. Turn the Express***ip*** Mini X off.
2. Hold down the 'A MIC ON', 'A-TB1' and 'A-TB2' buttons.
3. Whilst holding down the above buttons turn the Express*IP* Mini X on.
4. Both MIC On LEDs will flash very quickly to indicate the programming has been accepted.
5. Turn the Express***ip*** Mini X off.

The next time you turn the unit on it will be in Interpreter mode.

To turn off the Interpreter mode, then follow the instructions to enter programming mode under 'button functionality' on the previous page.

WIRING INFORMATION

XLR & JACK Wiring



XLR SOCKET (FEMALE)

STANDARD XLR AUDIO PINOUTS:

1: Ground/ Earth

2: INPHASE/ POSITIVE/ MIC +

3: MATE/ NEGATIVE/ MIC -

STANDARD HEADPHONE WIRING:

TIP: A/ LEFT Ear

RING: B/ RIGHT Ear

SLEEVE: Common/ Earth

