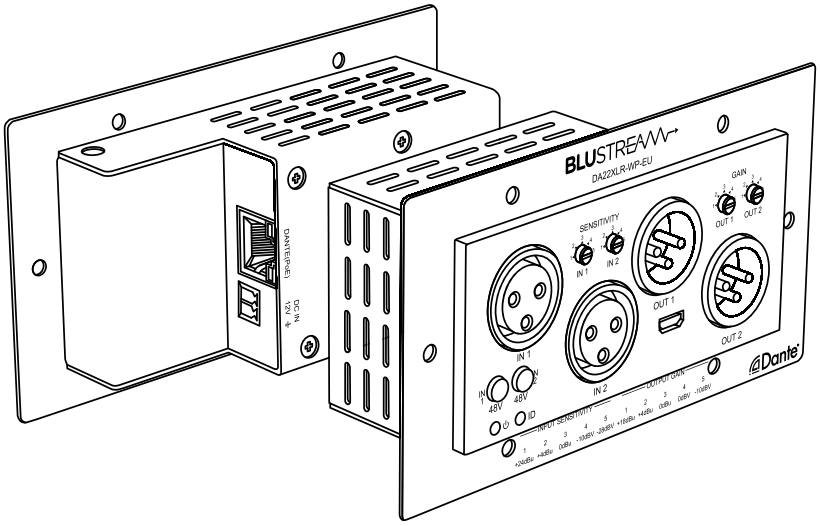
DA22XLR-WP

Quick Reference Guide



Introduction

The DA22XLR-WP is a multi-input / output wall plate to convert analogue audio within a digital Dante® networked audio system. The DA22XLR-WP features 2 input channels of balanced / unbalanced / MIC audio with switchable 48V phantom power and 2 output channels of balanced / unbalanced audio.

The DA22XLR-WP is a plug & play device that is powered using PoE (Power over Ethernet), or via 12V power supply, offers support for AES67 RTP audio transport and magnetic faceplate design allows for both UK & EU backbox compatibility. The DA22XLR-WP is the ideal BYOD interface to a Dante® audio system.

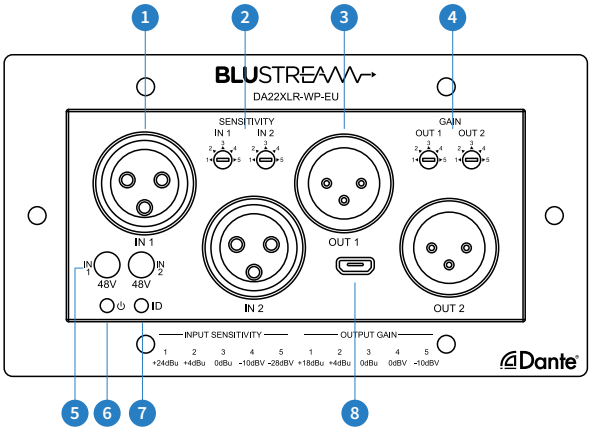
FEATURES:

- Dante® network wall plate interface for 2 x audio inputs and 2 x audio outputs
- Converts 2 x balanced / unbalanced / MIC audio sources to Dante® audio channels
- Converts 2 x Dante® audio channels to balanced / unbalanced audio outputs
- Switchable 48V Phantom power for each MIC XLR input
- Adjustable MIC / line sensitivity from +24dBu to -28dBV for each XLR input
- Adjustable line gain from +18 dBu to -10 dBV for each XLR output
- Supports: 44.1, 48 & 96kHz sample rates @ 24 Bit
- Configurable Dante® device latency (supports 1, 2 or 5ms configurable using Dante® Controller)
- Supports AES67 RTP audio transport
- Features Class 0 IEEE 802.3af PoE for powering of product from any PoE switch
- Supports power via 12V DC adapter (supplied) for when network switch does not support PoE
- Magnetic faceplate surround allowing for both UK & EU backbox compatibility

Front Panel

Connections:

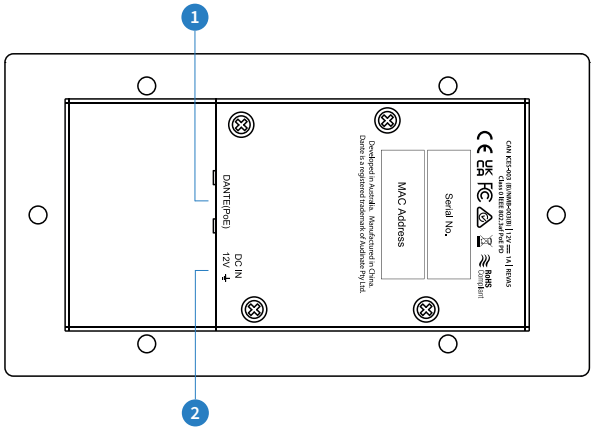
1. Analogue Audio Input - XLR connector for balanced or unbalanced analogue audio input
2. Input Sensitivity Dial - Rotate to adjust the input sensitivity of the analogue audio input connections
3. Analogue Audio Output - XLR connector for balanced or unbalanced analogue audio output
4. Output Gain Dial - Rotate to adjust the output gain of the analogue audio output connections
5. 48V Phantom Power Switch - Press to enable/disable 48V phantom power for microphones on corresponding input, illuminates when 48V is enabled
6. Power Status Indicator - Illuminates when the device is powered on power input
7. ID LED Indicator - Flashes when this device is identified through Dante® Configurator
8. Micro USB Port - Used for firmware updates



Rear Panel

Connections:

1. Dante® Network Connection (PoE) - RJ45 connection to connect to network switch
2. Power Port – Use 12V/1A DC adaptor (not included) when PoE is not available to power device



Input Senstivity / Output Gain

The DA22XLR-WP features rotary dials that allow for the adjustment of both the input sensitivity and output gain of each of the analogue channels.

Simply rotate the dial and align the arrow to one of the 5 switch positions. The input sensitivity or output gain level will correspond to the position as per the table adjacent (also printed under the faceplate of the device itself).

DIP	INPUT SENSITIVITY	LINE INPUT VRMS	OUTPUT GAIN	OUTPUT VRMS
1	+24dBu	12.28	+18dBu	6.153
2	+4dBu	1.228	+4dBu	1.228
3	0dBu	0.775	0dBu	0.775
4	-10dBV	0.316	0dBV	1
5	-28dBV	0.04	-10dBV	0.316

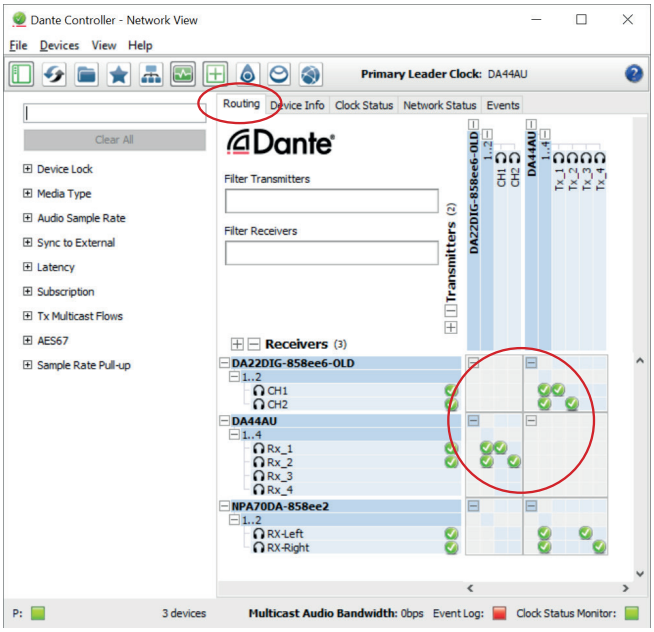
Please note: Due to the low input signal from microphones, when using a microphone we recommend only using switch positions 3-5 to avoid clipping of the input signal.

Dante® Controller

Dante® Controller software is required in order to set up and configure the DA22XLR-WP as well as control the Dante® network. Audinate provide extensive training videos and documentation on their website. This can be found here: http://www.audinate.com/products/software/dante-controller

Upon connecting the DA22XLR-WP to a compatible network, the Dante® Controller software will automatically discover the device. The DA22XLR-WP will appear in the Dante® Controller with a name prefixed as “DA22XLR-WP”. On the “Routing” screen, audio can can be routed between Dante® transmitters and receivers in the system.

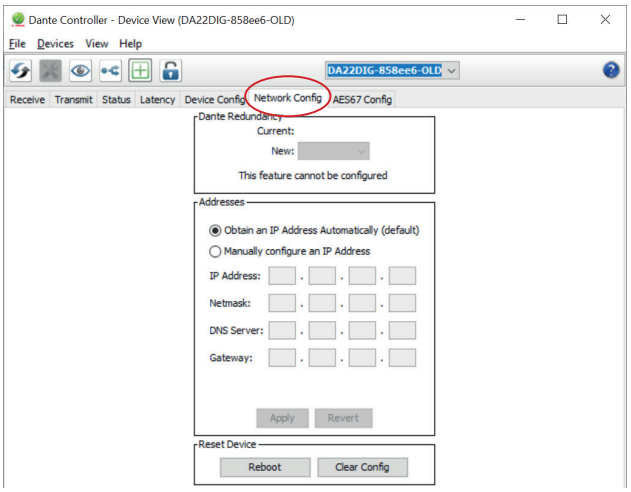
Please ensure the PC is on the same network as the Dante® devices. Dante® is not able to transmit over WiFi, and it is recommended to hardwire into the Dante® network. Having multiple network devices enabled can also confuse the Dante® Controller software so it is recommended to disable WiFi during configuration.



Advanced Dante® Settings

By default the DA22XLR-WP is shipped with its network settings set to obtain an IP address automatically. This means that if a DHCP server is present on the network, it will provide the DA22XLR-WP with an IP address. If no DHCP server is present then the DA22XLR-WP will receive a default IP address in the 169.254.xxx.xxx range.

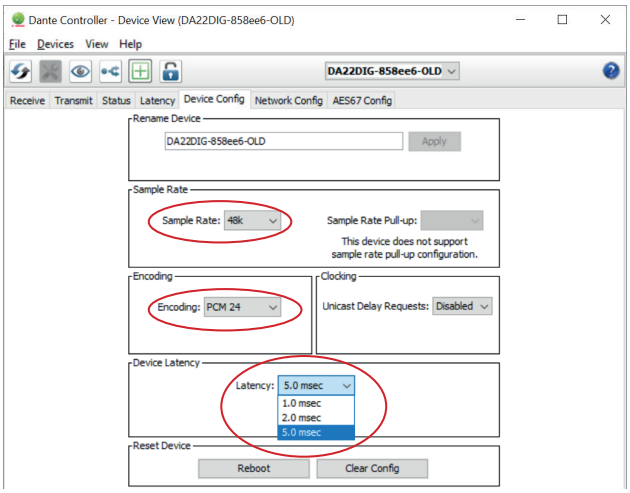
To change the IP address of the DA22XLR-WP, enter the “Network Config” menu in the “Device Info” screen of the Dante® Controller software.

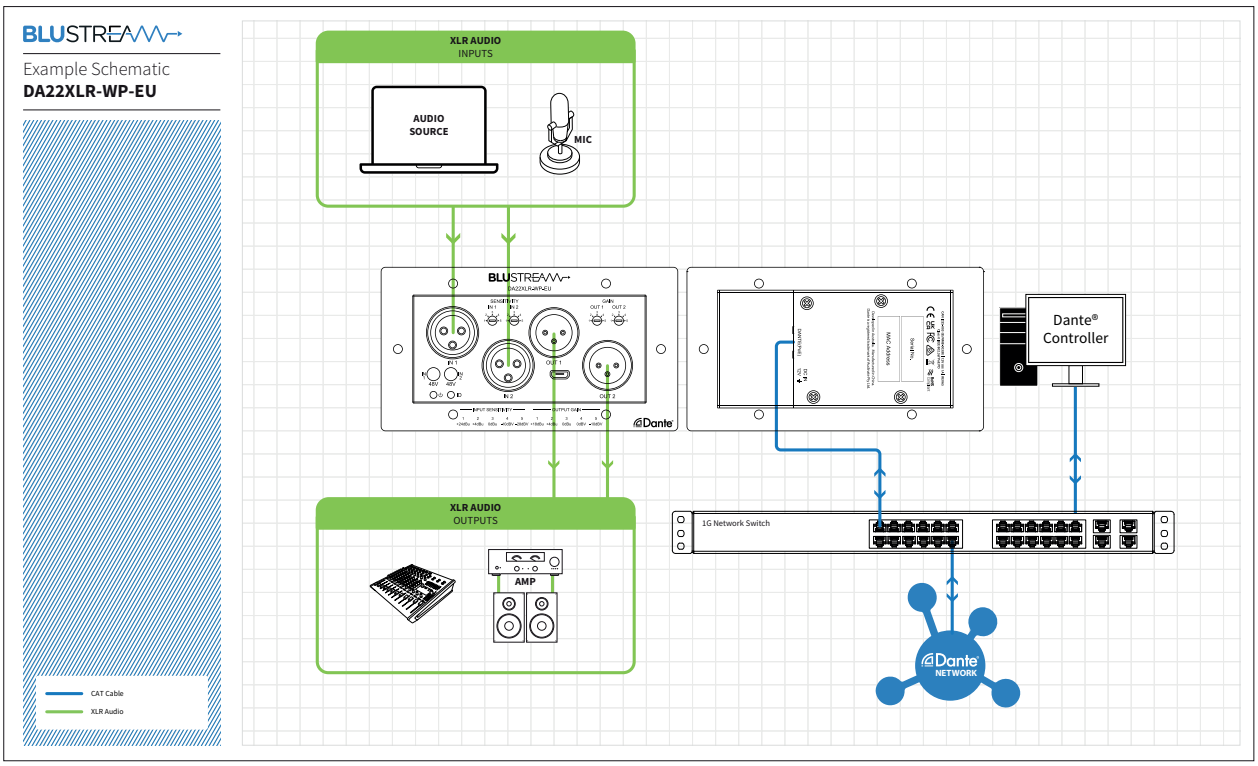


It is also possible to change the settings of the DA22XLR-WP within the “Device Info” screen in the Dante® Controller software. To do so, select the “Device Config” menu.

The sample rate of the DA22XLR-WP can be adjusted here. **Please note:** Dante® products can only transmit or receive audio from other Dante® products that are set up with the same sample rate. A mismatch in sample rate may stop audio from transmitting.

Under the “Device Config” screen, the latency of the DA22XLR-WP can be adjusted from 1, 2 or 5 milliseconds.





Specifications

Audio Input Connectors: 2 x Analogue balanced/unbalanced 3-Pin XLR connector
Audio Output Connectors: 2 x Analogue balanced/unbalanced 3-Pin XLR connector
Network Connectors: 1 x PoE Dante® Ethernet Connection (RJ45)
Configuration Switches: 4 x 5 position rotary dials (Sensitivity / Gain),
2 x Push button (48V Phantom power)
Firmware Upgrade: 1 x Micro-USB UART port
Module Dimensions (L x W x H): 136mm x 76mm x 45mm (without faceplate)
Faceplate Dimensions (L x W x H): 146mm x 86mm x 5mm
Cut Out Dimensions (L x W x H): 109mm x 50mm x 36mm
Mounting Hole Spacing: UK 121mm CTC, EU 60mm CTC
Backbox Requirements: UK double gang backbox / EU double gang backbox
Shipping Weight: 0.6kg
Operating Temperature: 32°F to 104°F (0°C to 40°C)
Storage Temperature: - 4°F to 140°F (- 20°C to 60°C)
Power Supply: Class 0 IEEE 802.3af POE PD or 12V/1A DC, 2-Pin Phoenix connector

Package Contents

- 1 x DA22XLR-WP
- 1 x Magnetic Faceplate
- 1 x Quick Reference Guide

Acknowledgements

Dante® is a registered trademark of Audinate Pty Ltd.

Certifications

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.