



Commentary Unit With Talkback And Dante® Network Audio Interface



VITA MINI X
Network Audio Commentary Interface

commentary interface

Highlights

For Commentary Or Talkback

Two Assignable 4 Wire Circuits

Dante® & AES67 Compatible

Monitoring With Left/Both/Right Switching

Network Remote Control & Configuration

Power Via PoE or External DC

Overview

The VITA Mini X is a very powerful Dante® network audio interface, in a compact belt pack style. It has a mic input and headphone monitoring connection for a single user, and contains two 4 wire circuits. One of these is typically used as an on air channel, and the other as a talkback channel.

The high quality microphone input, with the GlenSound Referee compressor, makes the VITA Mini X suitable for on air commentary use, particularly when pitch side.

The flexibility of the talk button configurations means that the VITA Mini X can also be used as a talkback unit as part of a Dante® or AES67 network.

Settings can all be controlled using the Windows 10 app GlenController.





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- Two 4 Wire Circuits**

The VITA Mini X has two 4 wire circuits. These are typically used as main programme on air, with a separate talkback circuit. The push buttons for each circuit are configurable and can operate in different modes, to allow configuration for different types of uses:

 - Latching on/off
 - Momentary push to talk (PTT)
 - Intelligent mode where a short tap is latching, but a longer hold becomes momentary
 - Always on and mutes when pressed (cough)
 - Pressing one button mutes the other circuit (talkback)
- Headphone Monitoring**

There is a 6.35mm jack socket for headphone monitoring. Each of the two 4 wire inputs can be selected to be in the left ear, right ear, or both ears of the headphones, depending on the user's preference. The level of each input can also be independently selected.

The headphone amplifier is intelligent and capable of driving correct levels into low or high impedance headphones and capable of connecting directly to both stereo or mono headphones and earpieces.

The headphone monitor also includes sidetone (at a configurable level). Sidetone is the commentator's own voice.

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- Single Input**

The VITA Mini X is a single user unit, with one high quality input. The input is mic/mic+48V switchable, on an XLR input, with a variable gain control.

As the VITA MINI X can be used for on air broadcast, GlenSound's Referee compressor limiter is used to control the audio levels and prevent any clipping. The Referee compressor has been developed over many years of working with sports commentators, and provides a gently increasing compression as the input signal approaches clipping. In normal use the compressor is not active as it only starts working as clipping approaches, so normal dynamic range is maintained.
- Input/Headset Options**

The VITA Mini X is available in 3 different options:

VITA Mini X/3F:	With 3 pin female XLR mic input
VITA Mini X/4M:	With 4 pin male headset connection (mono headphones)
VITA Mini X/5F:	With 5 pin female headset connection

All versions also have the 6.35mm headphone jack socket.
- Single Network Cable Link**

The VITA Mini X is Dante/AES67 network audio compatible. The network connection is via a single Neutrik EtherCON RJ45. This link carries:

 - 8 audio inputs
 - 8 audio outputs
 - Power over Ethernet (PoE)

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- AES67 & SMPTE ST-2110-30 Compliant**
 VITA Mini X utilises the Broadway chipset from Audinate (the company behind Dante).

The Broadway chipset has been designated as AES67 compliant by Audinate and as such it is possible to use the VITA Mini X in AES67 network environments. It can also be used in SMPTE ST-2110-30 environments when used with Dante Domain Manager.

- Power**
 The VITA Mini X has two power sources: PoE from a network switch/midspan



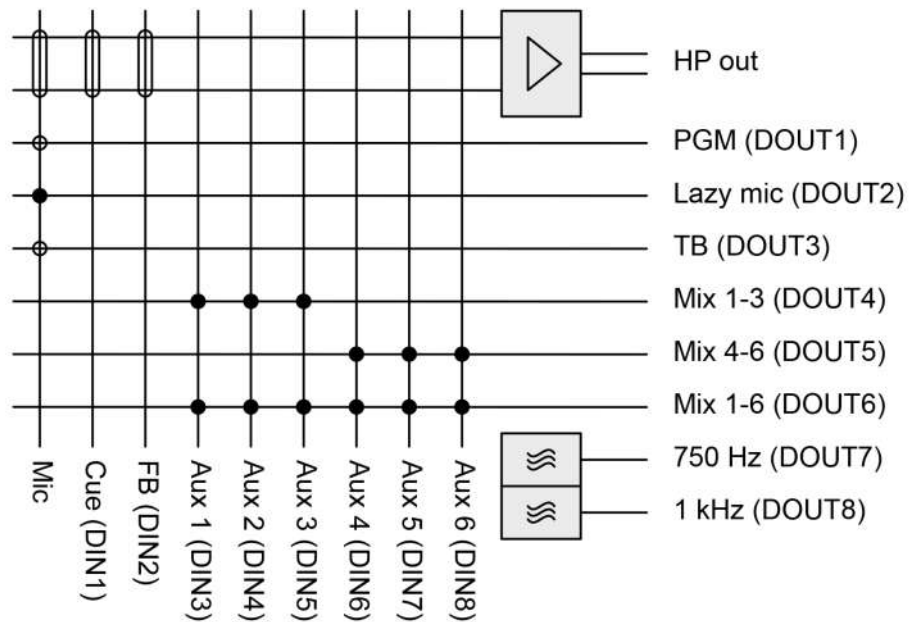
- PPM Meter**
 A front panel 4 segment PPM meter showing -12 to +6dB in 6dB steps provides confidence to the user that their outgoing level is set correctly and can also be used as a visual aid to indicate that the microphone has been switched on to the programme output.

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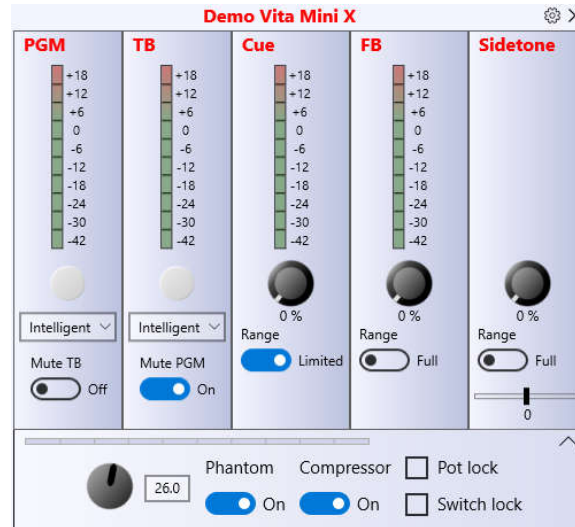
- Routing**
 The Vita Mini X features 8 inputs and 8 outputs to the network. These additional channels allow for some extra functionality across the network:
 - Dante output 1 is the switched programme circuit output
 - Dante output 2 is a permanently active mic
 - Dante output 3 is the switched talkback circuit output
 - Dante output 4 is a mix of Dante inputs 1-3
 - Dante output 5 is a mix of Dante inputs 4-6
 - Dante output 6 is a mix of Dante inputs 1-6
 - Dante output 7 is a 750Hz tone
 - Dante output 8 is a 1kHz tone

The mix channels are all fixed gain and allow a simple way to create a talk group.

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- **Network Remote Control**
GlenController is a Windows 10 PC application, and it can be downloaded for free from <https://www.glen sound.co.uk/product-details/glencontroller/> under the 'Latest Version' tab. When launched, GlenController scans the network for all connected VITA Mini X units, which show up on the left hand side. The function of each VITA Mini X is replicated on GlenController, with each unit receiving its own visual controller module.
- **Remote Control Of Mic Gain Levels**
There is a setting to select +48V phantom power on/off. A rotary control then acts as the gain level up and down between -8 and +55dB, with the meters indicating the level. This all operates in real time.
- **Talk Button Configuration**
Directly clicking on the program or talkback button on GlenController will work in the same way as if it was pressed locally on the VITA Mini X itself. This allows an engineer to have remote control of the mic on/off function. Each button can be set independently in the following modes:
 - Momentary - button is active only when held
 - Latching - a single press locks the button on or off
 - Intelligent - a short press locks the button, where a longer press acts as momentary
 - Cough
 - Always ON
 - Always OFF

The operation of a button can also mute the other circuit. For example, this is used to mute the program mic when the talkback button is pressed.

- **Local Control Security**
GlenController can disable the local controls on the unit. This gives security to the engineer using GlenController that they have full control of all levels and operation, and they cannot be overridden. If the pot lock or switch lock controls in GlenController are not active, then adjustment on the local unit will override the remote setting.

VITA Mini X

Designed For Sport News & Events

Specification

AUDIO

Mic Input Gain Range

7dB to 70dB

Phantom Power

48V

Equivalent Input Noise

-126dBu
 (@max gain, 150 Ohms, 20Hz-22kHz)

Headphone Impedance

32 to 1000 Ohms
 (Auto output level to match impedance)

Maximum Headphone Output

+18dB into 600 Ohms

Headphone Connector

6.35mm (1/4") TRS jack socket

Frequency Response

43Hz to 20kHz

NETWORK

Dante

Broadway chipset

AES67 Compliant

Yes

SMPTE ST-2110-30 Compliant

Yes, using Dante Domain Manager

Copper Ethernet

1 x Neutrik EtherCON connectors

Fibre Ethernet

No

Audio Sampling Frequency

48kHz

Transfer Rate

1000 Mbps

Resolution

24 bit

POWER

PoE

May be powered by the PoE network port
 Complies to: IEEE 802.3af-2003
 Classification Class 0

Consumption

<15 Watts

DC Input

2.5mm Barrel, Centre +Ve, 12Volts

Power On LED

Bright Blue

PHYSICAL

Size

80 x 125 x 80 mm (WxDxH)

Weight

0.4Kg

Mechanics

All aluminium construction, anodized and laser etched, powder coated sides

ENVIRONMENTAL

Operating Temperature

0 to +50 °C (32°F to 122°F)

Storage Temperature

-20 to +70 °C (-4°F to 158°F)

Relative Humidity

0 to 95% non-condensing

INCLUDED ITEMS

Handbook

Available by download

RJ45 Network Cable

2 metre Cat5 RJ45plug /RJ45plug cable

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