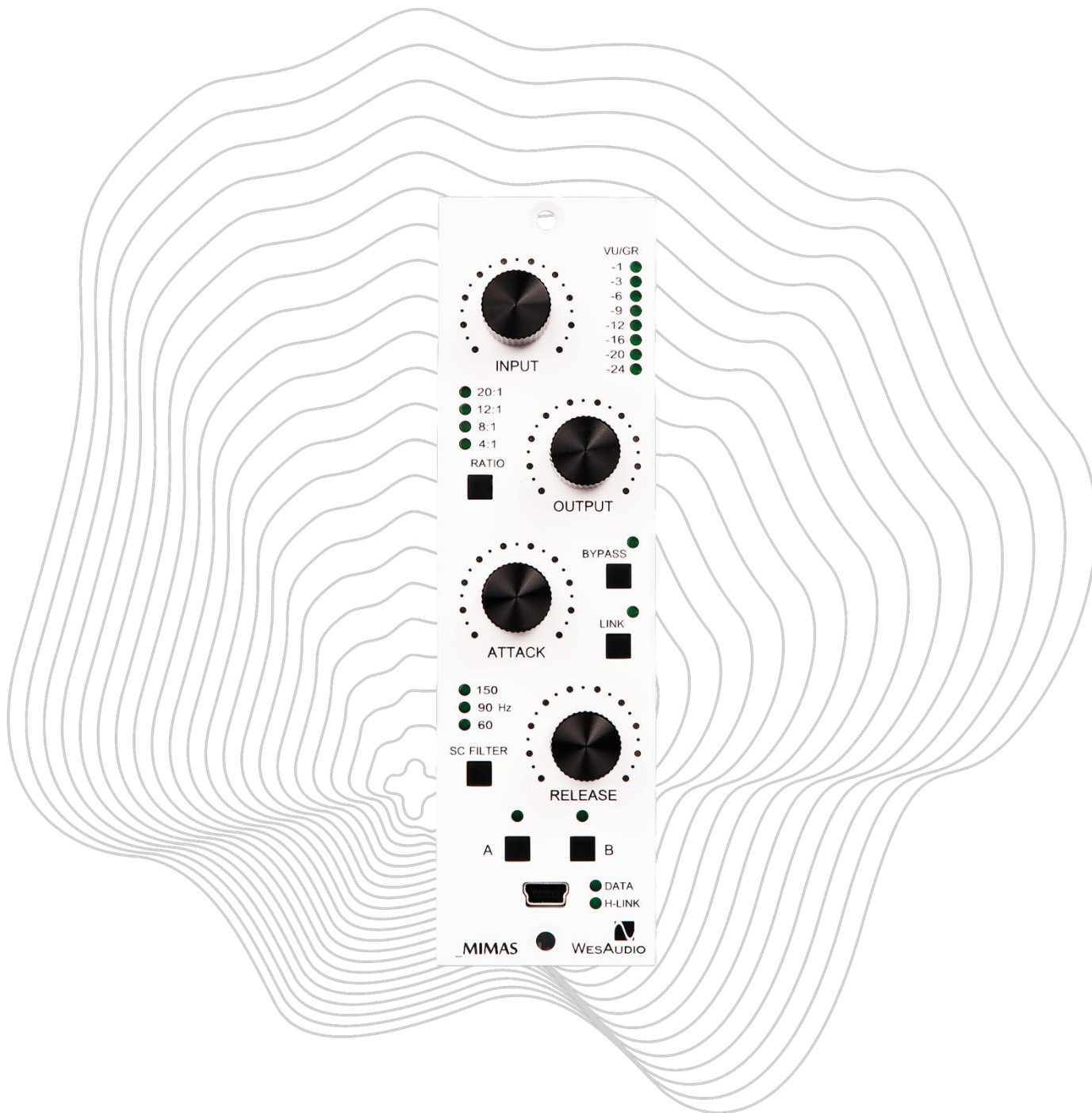




www.WesAudio.com



_MIMAS

User manual

EN

Copyright 2026 by WesAudio

Thank You for the purchase of **_MIMAS**

World's first 1176 style compressor with digital recall

With kind regards

Radoslaw Wesolowski and Michal Weglicki

THE WORLD'S FIRST 1176-STYLE COMPRESSOR WITH DIGITAL RECALL

Since 1968, this style of compression has dominated hundreds of recordings and remains one of the most commonly used signal processors in the industry. Its lightning-fast attack and release times have become essential tools for audio engineers. WesAudio proudly presents _MIMAS – an ng500 series implementation of the legendary FET compressor. Along with its classic analog sound, _MIMAS offers one of the most highly demanded features in the audio industry: DIGITAL RECALL.

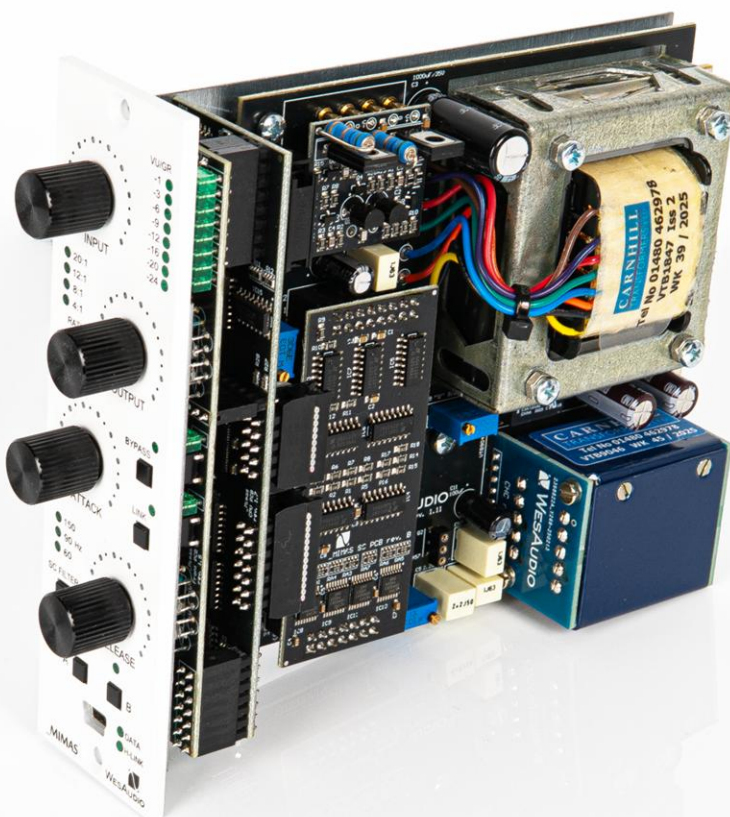


TABLE OF CONTENTS

1	Overview	7
2	Main Features	7
3	Hardware	8
3.1	Specification	8
3.2	Installation and Compatibility	9
3.3	Front Panel and Main Functions	11
3.4	LEDs	12
4	Analog Processing	13
4.1	FET Compression	13
4.2	Sidechain Filters	13
4.3	Saturation Mode	14
5	_MIMAS Gemini	15
6	Software Setup	16
6.1	Installation Process	16
6.1.1	For Windows Users	16
6.1.2	For OSX Users	16
6.1.3	Troubleshooting	17
6.2	GCon Manager	18
6.3	How to check Firmware version	19
6.4	How to perform Firmware upgrade	20
7	Digital Control / Recall	21
7.1	DAW Plug-in	22
7.1.1	_MIMAS - Mono Plugin Structure	23
7.1.2	_MIMAS - Mono Plugin Structure (Saturation Mode)	27
7.1.3	_MIMAS - Stereo Plugin Structure	29
8	Other Functions	31
8.1	Memories	31
8.1.1	Synchronization Upon Connection	31

8.1.2	Preset Banks Feature	31
8.2	Plot Feature	32
8.3	Auto Parameter Linking Feature	33
8.3.1	How to Enable/Disable Auto Parameter Linking	34
8.4	Metering.....	35
8.4.1	Analog Meter Imitation	35
8.4.1.1	Key Points of Analog Meter Imitation:.....	35
8.5	Sidechain.....	36
9	Hookup Diagrams.....	37
9.1	Hookup Diagram – Analog Cables with _TITAN	37
9.2	Hookup Diagram - _CALYPSO and _TITAN	38
9.3	Hookup Diagram – 500 Series Chassis.....	39
9.4	Other Examples	40
10	Troubleshooting	40
11	Abbreviations and Terms.....	41
12	Warranty	42

1 Overview

_MIMAS is a digitally controlled analog FET compressor inspired by the classic 1176-style compression, known for its fast attack and release. It combines the warmth of analog sound with modern DAW integration for full recall and automation. Part of the ng500 series, it offers flexible compression options, including saturation mode and true bypass.

2 Main Features

_MIMAS offers a sophisticated blend of analog audio excellence with digital precision, designed for professionals seeking uncompromising sound quality and versatile control:

- **1176-style FET compression:** Renowned for its lightning-fast attack and release times, perfect for a wide range of dynamic processing applications.
- **Full digital control and recall:** Integrated with DAW for automation and session recall, streamlining workflow efficiency.
- **ng500 series compatibility:** Seamlessly integrates into modular systems, working in sync with other ng500 units.
- **Variable ratio settings:** Includes 4:1, 8:1, 12:1, and 20:1 ratios, plus an "All" button mode for aggressive limiting.
- **Saturation mode:** Adds selectable harmonic distortion for analog warmth, activated by holding the ratio button.
- **True bypass:** Preserves the unprocessed signal's integrity when bypassed.
- **Sidechain high-pass filter:** Offers three frequency options (60Hz, 90Hz, 150Hz) to prevent low-end frequencies from triggering compression.
- **A/B comparison slots:** Lets users store and quickly compare two different compressor settings.
- **Digital Recall via USB or _TITAN:** Quick recall of settings through front panel USB or within _TITAN chassis.
- **VU/GR meter:** Displays input, output, and gain reduction levels, switchable via DAW plugin.
- **SC Link feature:** Allows stereo linking of two MIMAS units for stereo operation.

3 Hardware

This chapter will go through all analog features and explain all hardware aspects of _MIMAS.

3.1 Specification

Attack Time	20us – 800us
Release Time	50ms – 1100ms
Compression Ratio	4:1, 8:1, 12:1, 20:1, all button mode
SC High Pass Filter	60, 90, 150Hz
Output Impedance	600ohm
Frequency Response	20Hz – 20kHz (+/- 1dB)
Signal to Noise Ratio SNR	>83dB
Power Consumption	3W (100mA/+16V, 60mA/-16V)
Unit Dimensions	38x133x145 mm
Box Dimensions	105x162x234 mm
Unit Weight	0,95 kg
Box Weight	1,2 kg
Warranty	2 years

The unit must warm up for approximately 5 minutes before use. Temperature changes can impact the internal components, potentially affecting compression characteristics and slightly altering gain settings.

3.2 Installation and Compatibility

WesAudio _MIMAS compressor module is intended for installation in:

- An **API™ 500 Series** compatible rack
- **_TITAN** or any other **ng500** compatible chassis,

WesAudio's _MIMAS module isn't standalone; it needs power from the rack system to function.

When unpacking, check for any damage caused during shipping. If there's a problem, contact your dealer immediately!

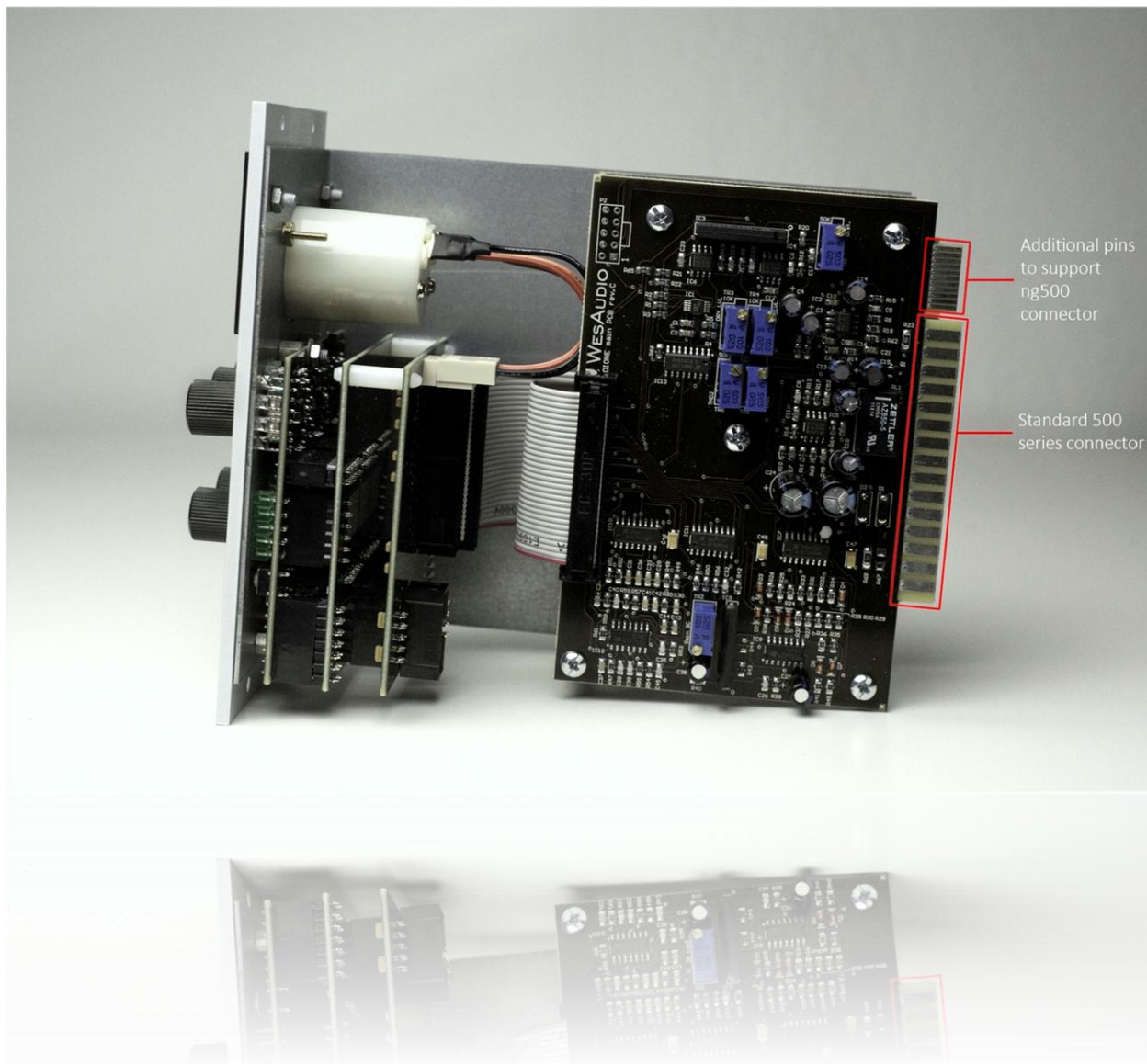
Module installation walkthrough:

Select the slot in the rack for the module and insert it, aligning the edge connector with the rack's matching connector. Gently slide the module into place until it is securely seated. Secure the front panel to the rack using screws provided by the rack manufacturer for stability. Be careful not to overtighten to avoid damaging the threads. Power it up, perform a quick test to ensure everything's functional, and most importantly, enjoy!

!Ensure the rack is powered down completely to avoid potential module damage!

500 series compatibility note:

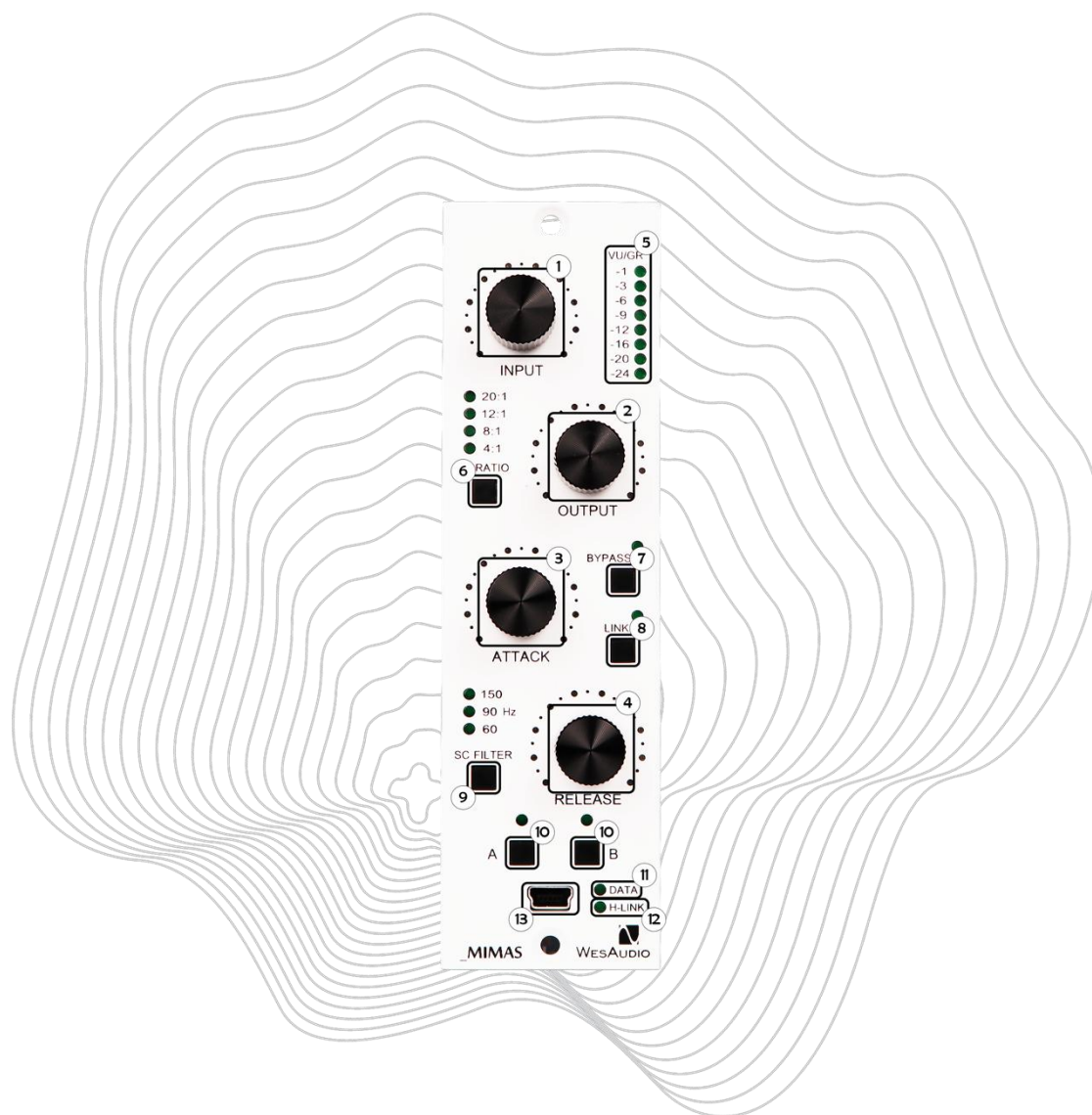
Each WesAudio device within the ng500 (Next Generation 500 series) lineup comes with a unique connector. This specialized connector serves as an extension to the standard 500 series, enabling your device to be controlled and recalled using the specialized GCon protocol. For instance, this connector allows compatibility with the _Titan 500 series 10-slot frame.



This extension is designed to work with the standardized plug type in the 500 series. Yet, some manufacturers use large screws on the plug, hindering device compatibility. Research indicates that over 90% of 500 series racks are compatible. For more information, please visit: <https://wesaudio.com/ng500/>.

3.3 Front Panel and Main Functions

Analog Sound
Digital Recall



 WESAUDIO

1. **Input:** Controls the level of the input signal entering the compressor and sets the threshold. Higher settings will result in more compression or limiting.
2. **Output:** Adjusts the output signal level after compression. It is used to restore the gain lost due to compression.
3. **Attack:** Sets the attack time from 20 microseconds to 800 microseconds. The attack is fastest when the knob is fully clockwise and slowest when fully counterclockwise.
4. **Release:** Adjusts the release time from 50 milliseconds to 1100 milliseconds. The release is fastest when the knob is fully clockwise and slowest when fully counterclockwise.
5. **VU/GR LED Meter:** Displays the input, output, or gain reduction levels. You can switch between these display modes via the DAW plugin.
6. **Ratio:** Controls the compression depth. A ratio of 4:1 provides minimal compression, while 20:1 acts as a limiter. When all LEDs are active, the "All" mode is engaged. Holding a ratio button for over 1 second activates [saturation mode](#).
7. **Bypass:** Bypass switch.
8. **Link:** Activates linking to another module for stereo operation.
9. **SC Filter/Link:** Selects one of three side-chain high-pass filter frequencies (60Hz, 90Hz, 150Hz) or toggles the link function.
10. **A/B:** Two memory slots that allow quick comparison between two different compressor settings.
11. **DATA LED:** Indicates that data is being sent from the DAW to the hardware.
12. **H-LINK LED:** Shows the status of the host-module connection.
13. **USB socket:** Module control USB port.

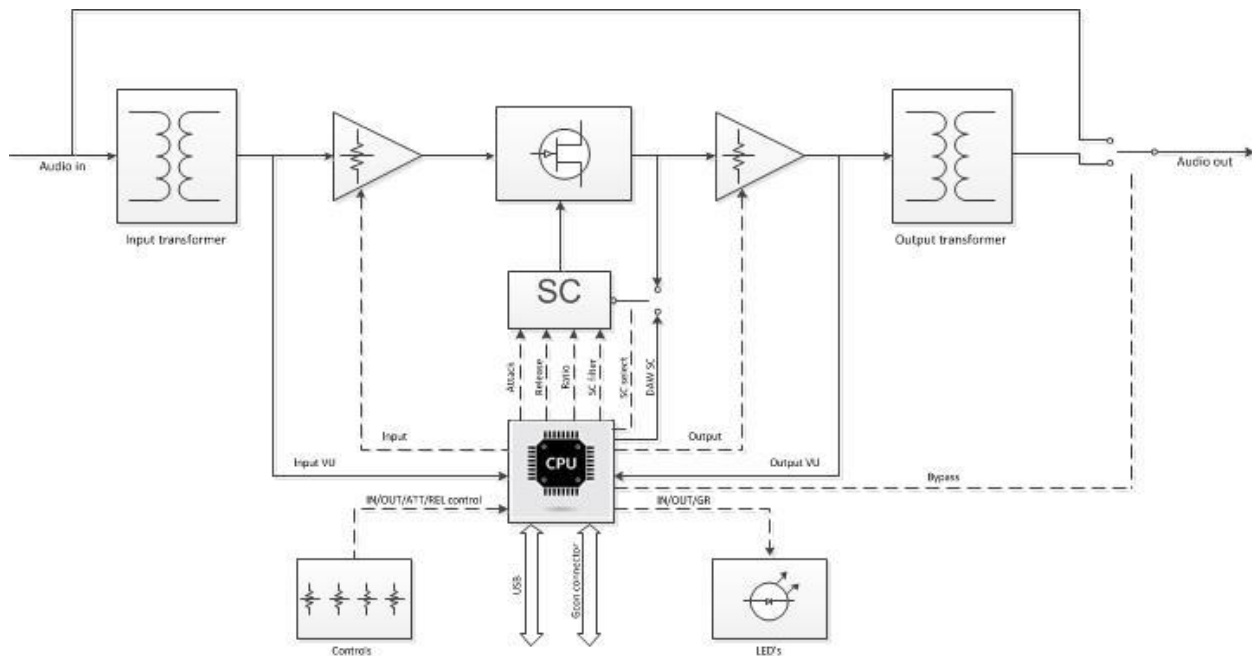
3.4 LEDs

The unit offers two LED operation modes:

- **Normal Mode:** LEDs light up in a clockwise sequence, indicating the overall level of a specific parameter.
- **Single LED Indicator Mode:** Each parameter is represented by a single LED, similar to a knob with an indicator. In this mode, the LED will not illuminate upon touch; however, the touch-sensitive encoders still function as expected for DAW automation.

You can switch between these modes by holding down the front panel **bypass button for 3 seconds**.

4 Analog Processing



4.1 FET Compression

FET (Field Effect Transistor) compression is known for its fast response and aggressive compression characteristics, making it ideal for handling dynamic audio sources like drums, vocals, and bass. FET compressors deliver a punchy, tight sound with a signature tonal coloration, adding energy and presence to a mix. The MIMAS's FET circuit, inspired by classic designs, offers precise control over dynamics while maintaining the musicality of the source material. With its fast attack and release times, FET compression is perfect for situations requiring tight control and enhanced transients without sacrificing warmth.

4.2 Sidechain Filters

_MIMAS features 3 built-in sidechain filters and supports an external sidechain signal source.

FILTERS:

OFF – Sidechain filter not active,

60 Hz – Sidechain High Pass Filter at 60 Hz (6dB/Octave).

90 Hz – Sidechain High Pass Filter at 90 Hz (6dB/Octave).

150 Hz – Sidechain High Pass Filter at 150 Hz (6dB/Octave).

4.3 Saturation Mode

_MIMAS offers two operation modes:

- **Compressor mode** – the default mode for dynamic control.
- **Saturation mode** – This mode is designed to introduce transformer saturation and FET-based 2nd harmonic distortion into the signal.

Saturation mode can be activated either through the plugin (using the drive button) or directly from the hardware by holding the ratio button for more than 1 second. In this mode, the input knob controls the drive level, while all other controls, except for the bypass button, are disabled. The saturation mode applies gain staging at the input and output stages to create transformer and FET-based distortion. To achieve higher distortion levels, a higher input signal is recommended. The output level is automatically matched to the input signal using internal algorithms, ensuring the signal level remains unchanged. This matching also applies to bypass mode, allowing for easy A/B comparison.

5 _MIMAS Gemini

_MIMAS Gemini is available in stereo pairs, with each pair carefully calibrated at the factory for stereo usage. These units are factory-paired to ensure minimal differences in level and compression behavior, but they can also be used as dual mono independent compressors or as a stereo unit.

- **Stereo Pair Calibration:** Each pair is tuned at the factory to guarantee consistent performance, especially in stereo mode.
- **Dual Mono or Stereo:** Includes two separate mono-channel devices that can be linked together for stereo operation through a dedicated software.
- **Compression Detectors:** Can be linked for true stereo operation, allowing both units to share detector information and respond equally to the incoming signal for coherent stereo compression.
- **Parameter Linking:** All parameters between the units can be linked via a dedicated plugin. Adjusting one channel automatically updates the other channel for seamless stereo control.

Using two independent mono units might result in differing behavior, especially in true stereo mode with linked compression detectors in the sidechain circuit.

6 Software Setup

The WesAudio software package is accessible for download to all purchasers of the corresponding hardware unit at <https://www.wesaudio.com/download>.

<https://www.wesaudio.com/download>



For information on supported plugin types and platforms, please refer to the provided link.

6.1 Installation Process

To initiate the installation of the WesAudio software package, navigate to <http://www.wesaudio.com/download> and download the latest version of the software.

6.1.1 For Windows Users

- **Initial Installation:** Before beginning the installation, ensure that all WesAudio devices are disconnected from your computer.
- **USB Driver Installation:** Upon installing the USB driver, a notification will prompt you to connect all WesAudio devices. Please connect the devices as instructed.
- **Computer Restart Request:** Installation of the USB driver may necessitate restarting your computer. Although restarting is generally inconvenient, it is a crucial step to ensure successful installation of the USB driver.
- **Post-Restart:** After restarting, the installer should automatically resume. If the installer does not restart on its own, please manually reopen the same installer to continue the process.

6.1.2 For OSX Users

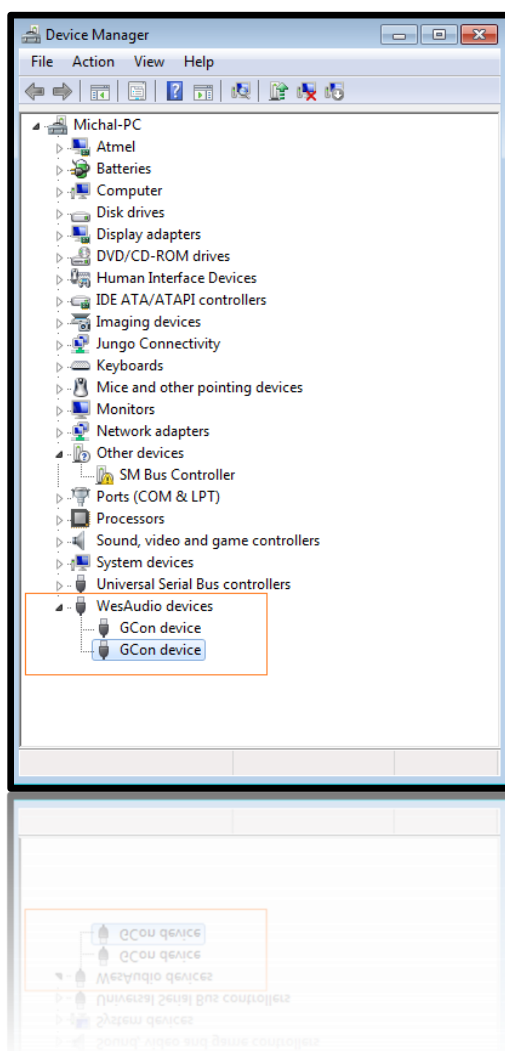
Due to the simpler nature of OSX architecture and its handling of USB devices, the primary consideration is to ensure all devices are connected before beginning the installation process. Once you initiate the installer application, you might encounter system warnings regarding the installer. In such cases, please disregard these warnings*. If necessary, you can bypass these warnings by accessing the context menu through an 'Option' click (or right mouse click) and initiating the installation process again.

6.1.3 Troubleshooting

If you encounter any issues during the installation process, please reach out to our support team at support@wesaudio.com, and we will respond promptly to assist you.

Below is a common issue along with suggestions that might help in diagnosing the problem:

- Issue: "Can't find my device in the plugin dropdown menu"
 - This problem can stem from multiple causes. On Windows, a critical step is to verify that the USB device is successfully recognized at the system level. You can check this in the "Control Panel -> System -> Device Manager."
 - **Important for Windows Users:** Installing the USB driver is essential for the hardware units to communicate with the software. This step is mandatory only during the initial installation. The driver installation option will be automatically disabled for any subsequent software updates.



6.2 GCon Manager

The GConManager is a versatile application designed for configuration management across compatible devices. It is located within the Application folder data:

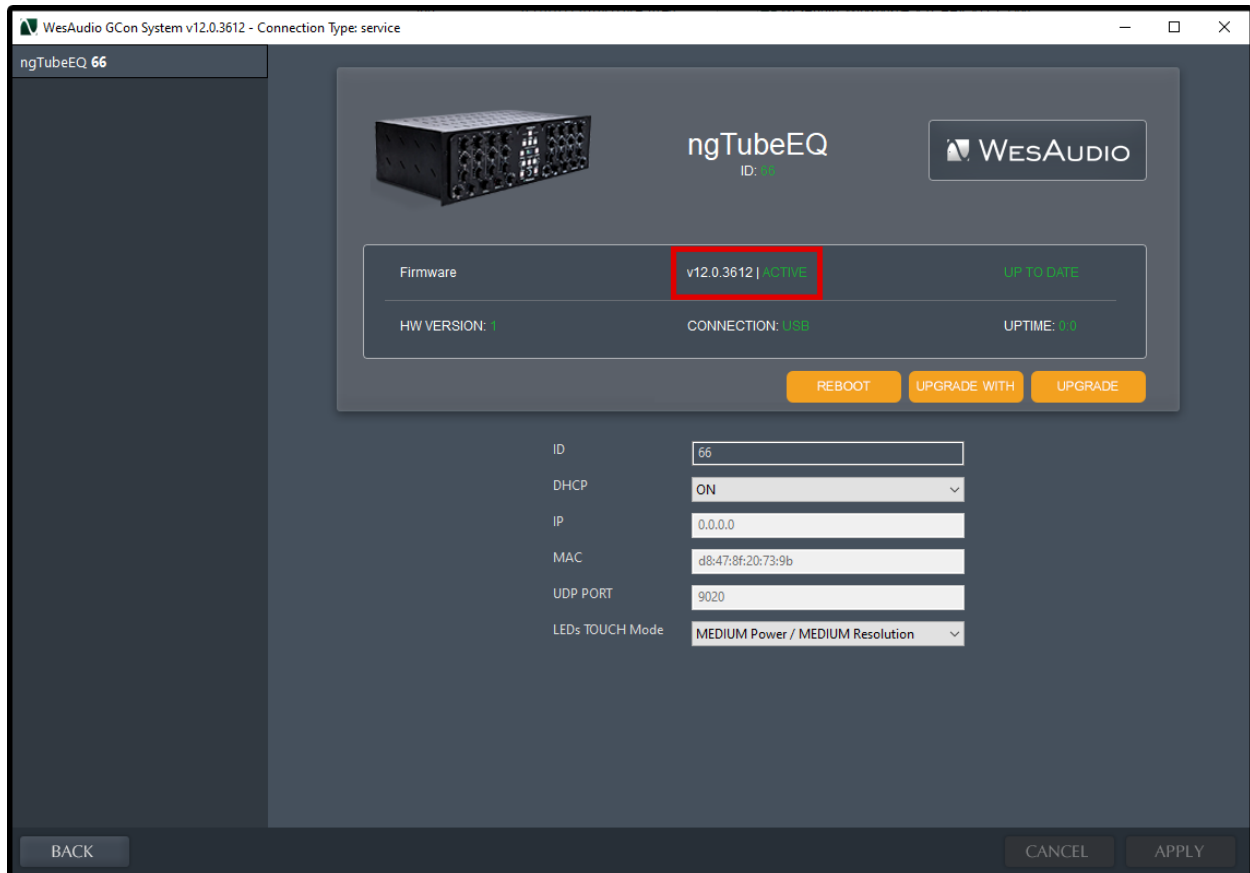
- **For OSX:** Access it at “/Applications/WesAudio/GConManager.”
- **For WINDOWS:** Find it in the folder chosen during the installation phase, typically “c:/Program Files x86/WesAudio/GConManager.exe” by default.

Main Features:

- **Firmware Updates:** Easily upgrade your device's firmware to the latest version.
- **Configuration Settings:** Modify unit settings, such as IP address configuration, to suit your needs.
- **Diagnostics:** Run diagnostic tests to ensure your unit is functioning correctly.
- **External Controller Setup:** Configure external controllers, for instance, for the ngLeveler.
- **Standalone Operation:** Control units directly without the need for a DAW (Digital Audio Workstation).

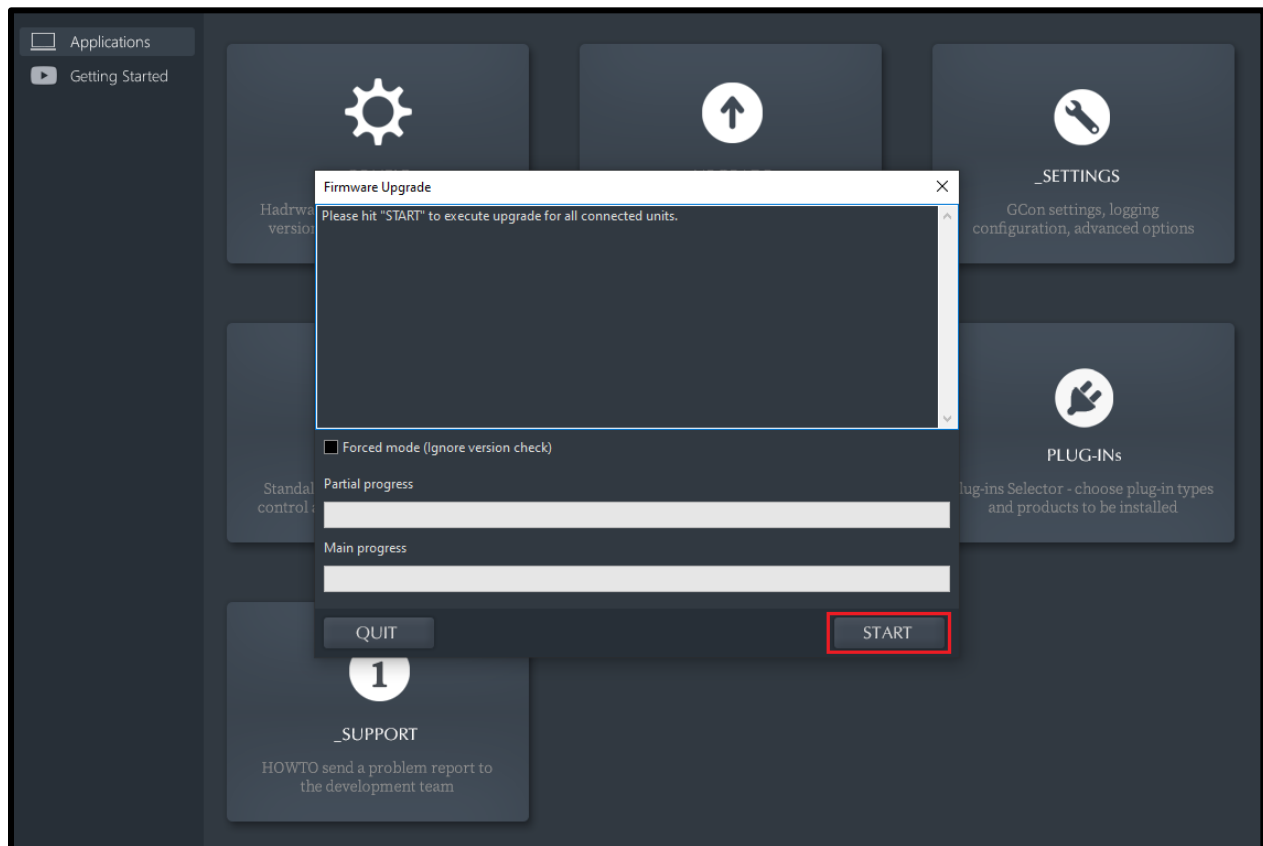
6.3 How to check Firmware version

Each device communicates its firmware version to your workstation, establishing compatibility between your host application and the connected device. To verify or perform a firmware upgrade, please use the GConManager_CONFIG application. Additionally, the firmware version is displayed on the device's LCD screen immediately upon startup.



6.4 How to perform Firmware upgrade

To update the firmware, navigate to the GConManager UPGRADE section and press the “Start” button. This initiates the update process for any modules that are not currently aligned with the latest version of your host software.



7 Digital Control / Recall

This chapter delves into the comprehensive options available for managing _MIMAS and automating its settings. The cornerstone of _MIMAS's automation capabilities is its integration with Digital Audio Workstations (DAW) through a plugin, which is available in all common formats. This seamless convergence between hardware and digital software opens a wide array of creative possibilities and enhances workflow efficiency.

DAW Plugin Control:

DAW plugin control bridges the analog-digital divide, enabling users to manipulate hardware settings directly from their DAW. This fusion of the tactile and the virtual is not merely convenient but transformative, changing how producers and engineers interact with their gear.

Benefits of DAW Plugin Control:

- **Precision and Recall:** The ability to precisely recall settings for sessions is invaluable, ensuring mixes can be revisited or altered without the need to manually reconfigure the hardware. This feature is crucial for those working on multiple projects or needing to maintain consistency across sessions.
- **Automation Capabilities:** Integration with the DAW allows for the automation of every _MIMAS parameter within the digital environment. This feature provides dynamic changes in settings over time, infusing tracks with movement and vitality without manual intervention.
- **Workflow Efficiency:** Manually adjusting settings on hardware units can be cumbersome, particularly in complex setups. DAW plugin control simplifies this process, facilitating quick changes and A/B comparisons without physical interaction with the unit, thereby streamlining the production process.
- **Enhanced Creative Potential:** Merging the analog warmth with digital control flexibility broadens the creative spectrum, enabling real-time experimentation and the achievement of effects that might be challenging or impractical to accomplish on the hardware alone.
- **Accessibility:** DAW plugin control ensures full accessibility and adjustability of _MIMAS features from the workstation, a boon for those with spatial constraints or other limitations preventing direct access to their hardware.

In essence, _MIMAS's DAW plugin integration marries the rich, analog sound quality with the precision and versatility of digital control. This not only amplifies the functionality of _MIMAS but also elevates the music production process, offering unprecedented control and flexibility in a traditionally analog setup.

7.1 DAW Plug-in

The _MIMAS plug-in extends comprehensive control over all parameters of the unit, ensuring seamless integration into any digital audio workstation (DAW) environment. Designed to be versatile and accessible, it supports all common plug-in standards, including VST2, VST3, AU (Audio Units), and AAX, making it compatible with a wide range of software platforms.



7.1.1 _MIMAS - Mono Plugin Structure

**Analog Sound
Digital Recall**



For detailed explanations of each control and its functionality, users are encouraged to consult the chapter titled "[Front Panel and Main Functions](#)." This section provides comprehensive insights into how to interact with the _MIMAS, whether you're adjusting parameters on the physical unit or via the plug-in.

1. **Undo:** The Undo feature in the _MIMAS plug-in allows users to revert to the previous state before the most recent adjustment was made. This function is essential for quickly correcting mistakes or reassessing changes without permanent consequences to the settings.
2. **Redo:** Following an Undo action, the Redo function permits users to reapply the last change that was undone. This feature ensures that no adjustment is final until the user is satisfied, providing an additional layer of flexibility in tweaking the settings.
3. **Previous Preset:** Loads the previous preset from preset database.
4. **Next Preset:** Loads the next preset from preset database.
5. **Preset Name:** The name of the preset currently in use or being modified, which allows for easy recall or sharing of specific configurations.
6. **Preset Selector:** Allows for the selection, viewing, and deletion of presets.
7. **Preset Save:** Saves currently selected presets.
8. **Preset Save As:** Facilitates saving current settings as a preset providing name and preset details.
9. **Fast Preset Change (A/B/C):** Quickly toggles between configs A/B/C without affecting connection-related parameters like the Connection ID.
10. **Copy:** Enables users to copy the current parameter state.
11. **Paste:** Enables users to paste the current parameter state, facilitating quick duplication of settings.
12. **Menu:**
 - **Resize:** Adjusts the GUI size (75%/100%/125%/150%/175%/200%), catering to different screen sizes and user preferences.
 - **Reset Parameters to Default:** Resets all plugin parameters to their default states.
 - **Save GUI Preferences:** Allows to save current GUI settings, ensuring each new plugin instance opens with the same size and scaling settings.
 - **Clear GUI Preferences:** Clears the information about plugin size, FFT, and draw plot from the file. Please note that this function does not reset the plugin GUI to its default settings, it just clears saved configuration used by new plug-in instances.
 - Shows currently installed plug-in version.
13. **Meter Selection:** can be switched between GR (Gain Reduction), IN (Input) and OUT (Output).
14. **Meter:** Allows users to choose what the meter displays — **Gain Reduction (GR)**, **Input (IN)**, or **Output (OUT)** signal levels. This flexibility helps monitor signal flow and compression behavior at different stages of processing.
15. **Mode Selector:** Turn on or off Saturation and Comp Off.
16. **SC Filter:** Enables a filter on the sidechain input, allowing certain frequencies to be excluded from triggering the compression. Switches between OFF/60/90/150Hz.
17. **Ratio:** Sets the amount of compression applied once the signal exceeds the threshold, determining how much the input signal is reduced. Switches between 4:1, 8:1, 12:1, 20:1.

18. **Ratio Hold/Toggle:** Controls how ratio buttons behave. When enabled (default), selecting a ratio deactivates the previously selected one, allowing only one ratio at a time. When disabled, ratio buttons act independently, letting you engage multiple ratios simultaneously.
19. **All:** Engages all ratio buttons simultaneously.
20. **Bypass:** Allows to engage/disable bypass on the hardware unit.
21. **Link:** Toggles the link mode between two connected _MIMAS units for stereo operation. When engaged, parameter changes made on one channel (e.g., Input, Output, Attack, Release, etc.) are mirrored on the linked unit, ensuring phase-coherent, matched stereo compression. This link affects only control settings—audio signal paths remain independent to preserve true analog behavior.
22. **Input:** Adjusts the input gain, allowing users to control the level of the incoming signal before it undergoes processing, ensuring optimal signal strength for compression.
23. **Dynamic Link:** Links the Input and Output controls when using the GUI Scroll in the plugin, allowing both parameters to be adjusted simultaneously. For more information read chapter “[Auto Parameter Linking Feature](#).”
24. **Output:** Adjusts output gain to compensate for level reduction caused by compression, ensuring consistent loudness.
25. **Attack:** Defines how quickly the compressor or limiter responds to signals exceeding the threshold, affecting how tightly the effect grabs transients
26. **Release:** Controls how fast the processor releases gain reduction once the input signal falls below the threshold, affecting the smoothness or punchiness of the compression.
27. **Gain Reduction Meter:** Shows the amount of gain reduction being applied to the signal, which is helpful for monitoring compression or limiting.
28. **Plot:** Toggles the Gain Reduction Graph view on or off for visual monitoring of compression over time. For more information read chapter “[Plot Feature](#).”
29. **The Select Connection Button** within the _RHEA plug-in serves as a gateway to establishing and managing connections with devices that support the GCon protocol. This feature simplifies the process of identifying and selecting the hardware unit to be controlled, providing a user-friendly interface for seamless integration between the plug-in and physical devices.

Upon Initiating Connection, It Visualizes the Connection State as Follows:

- **USB:** This label signifies a connection established through USB, offering a direct link between the hardware unit and the workstation.
- **SLOT:** This label indicates that the unit is connected through a _TITAN chassis.
- **Connection ID:** The unique identifier for the connected hardware unit is displayed, allowing for easy recognition and management of multiple devices. Accompanying this ID, the connection status is visually indicated to inform the user of the current state:
 - **ON:** A solid white font denotes a successful connection, indicating that communication between the plug-in and the hardware unit is active.
 - **OFF:** A solid gray font signifies that the connection is not established, alerting the user to a disconnect or other issue preventing communication.
 - **Connecting:** A gray italic font is used to represent the process of establishing a connection. If this state persists for an extended period (more than 5 seconds)

without successful connection, it suggests a potential issue requiring troubleshooting or support consultation

- 30. **Toggle Connection Button:** This button toggles the connection status ON/OFF. It functions only when a connection ID has been selected using the "Select Connection Button."
- 31. **Resize:** Adjusts the display size or layout of the interface.

7.1.2 _MIMAS - Mono Plugin Structure (Saturation Mode)

**Analog Sound
Digital Recall**



1. **Meter:** Provides real-time visual feedback of the selected signal type. In normal compression mode, it can display **GR**, **IN**, or **OUT**. In **Saturation mode**, it reflects only **Input** or **Output** levels, as gain reduction is not active.
2. **Saturation Graph:** Displays the real-time visualization of the amount of saturation applied to the signal
3. **Bypass:** Toggles the saturation effect on or off.
4. **Drive:** Adjusts the amount of saturation, increasing harmonic distortion as you turn it up.
5. **Trim:** Adjusts the output level to maintain consistent volume after saturation.
6. **SC Filter:** Enables a filter on the sidechain input, allowing certain frequencies to be excluded from triggering the compression. Switches between OFF/60/90/150Hz

7.1.3 _MIMAS - Stereo Plugin Structure

**Analog Sound
Digital Recall**



1. **Config Bank:** Selects between configuration banks, each containing three configurations. This feature supports automation for changing unit settings within a session or a song.
2. **Left Select Connection Button:** Opens a dropdown list of available hardware units. Select the appropriate device to establish a connection for the left channel.
3. **Left Toggle Connection Button:** This button toggles the connection status ON/OFF. It functions only when a connection ID has been selected using the "Select Connection Button."
4. **Copy Left to Right:** This feature enables quick duplication of settings from the left channel to the right channel, simplifying the alignment of parameters between the two.
5. **Parameter Link:** Synchronizes identical controls across both channels, ensuring consistent adjustments and cohesive stereo operation with a single action.
6. **Copy Right to Left:** This feature enables quick duplication of settings from the right channel to the left channel, simplifying the alignment of parameters between the two.
7. **Right Toggle Connection Button:** This button toggles the connection status ON/OFF. It functions only when a connection ID has been selected using the "Select Connection Button."
8. **Right Select Connection Button:** Opens a dropdown list of available hardware units. Select the appropriate device to establish a connection for the right channel.

8 Other Functions

8.1 Memories

In terms of parameter storage:

- The _MIMAS unit offers **TWO** distinct quick-access presets, selectable via the A/B buttons.
- In contrast, the _MIMAS plugin supports saving an **UNLIMITED** number of configurations. Each preset within the plugin provides three rapid configuration changes, labeled A/B/C per bank ID.

8.1.1 Synchronization Upon Connection

When a new plugin instance is loaded into your DAW, it starts with default settings and no modified parameters. Upon establishing a connection to the hardware unit by setting the Connection ID, the plugin downloads the current parameter state from the hardware, including any available fast configuration presets. For example, if the connection between the _MIMAS plugin and the _MIMAS hardware is made while the plugin is in its default state, all parameter states, including A and B presets, will be downloaded to the plugin.

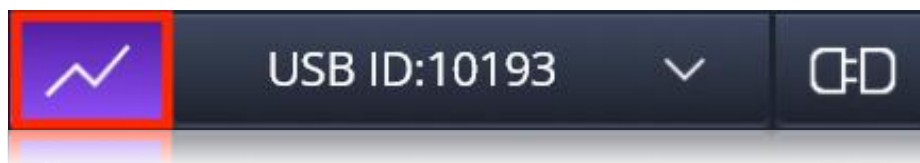
8.1.2 Preset Banks Feature

The Preset Bank feature allows you to configure different parameter states and enables additional parameter configurations (A/B/C) for flexible use. Having multiple memory banks can be particularly beneficial when mixing multiple songs within the same session. The Memory Bank parameter can be automated in the DAW, helping to maintain different settings across various sections of a session or between different songs within a single session. This feature is especially useful during the mastering phase, where multiple songs are often processed in one session.



8.2 Plot Feature

The Plot feature in the MIMAS allows users to toggle the visual representation of the gain reduction applied or the input/output signal passing through the unit. By clicking on the plot icon, you can easily enable or disable the function, giving you the flexibility to visualize the dynamic changes in real-time. This graphical display provides an intuitive way to monitor compression or signal flow, offering immediate feedback to fine-tune settings for optimal performance. Whether you want a clear overview of how the gain reduction is affecting your sound or track the levels of your input and output signals, the Plot feature enhances your workflow with precision and ease.

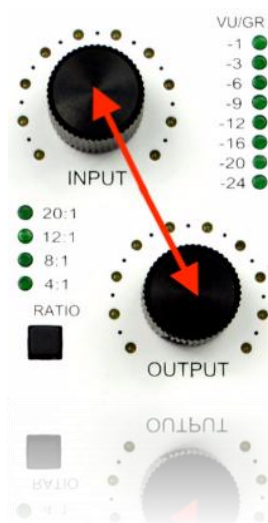


8.3 Auto Parameter Linking Feature

Auto Parameter Linking is a **hardware-based function** that allows selected parameters to move together in a coordinated and predictable way. Its purpose is to simplify gain staging and preserve consistent output levels while shaping tone.

In _MIMAS, Auto Parameter Linking connects the **Input** and **Output** controls. When the feature is active, these parameters are linked inversely: increasing one parameter automatically decreases the other by a corresponding amount. This relationship makes it possible to drive the analog circuitry harder while maintaining a stable overall output level.

This behavior enables intuitive control of analog coloration and headroom, allowing users to explore harmonic character and saturation without unintended jumps in loudness. Auto Parameter Linking is especially useful during creative tone shaping and fast mix adjustments, where consistent level management is essential.



8.3.1 How to Enable/Disable Auto Parameter Linking

Auto Parameter Linking is enabled by default. This hardware-based function can be configured in the **GCon Manager _CONFIG** application and operates entirely at the hardware level.

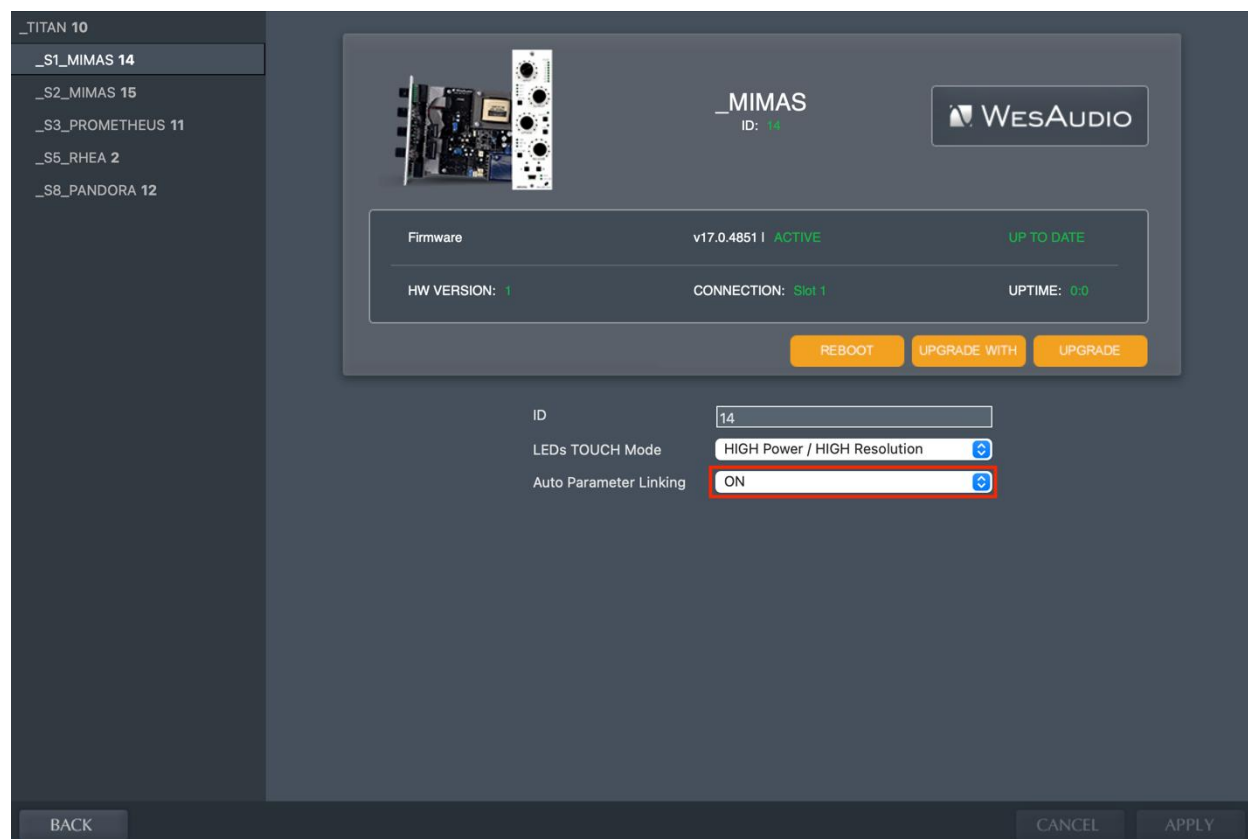
To enable or disable the feature:

1. Open **GCon Manager _CONFIG**.
2. Locate the **Auto Parameter Linking** option.
3. Set the option to **ON** to allow hardware-based parameter linking, or **OFF** to disable the feature.

When **Auto Parameter Linking** is enabled:

- Touching two encoders simultaneously on the hardware activates linking between the selected parameters.
- Once linked, adjusting either control causes both parameters to move in opposite directions, maintaining a consistent signal level relationship.

When the option is set to **OFF**, encoder-based linking on the hardware is disabled and automatic parameter linking cannot be performed.



8.4 Metering

The _MIMAS features three types of metering, each providing valuable insights into different stages of the signal processing chain:

GR (Gain Reduction): The GR meter indicates the amount of gain reduction applied by the compressor, reflecting the dynamic range control in real-time.

IN (Input): The IN meter displays the signal level coming into the MIMAS. The plugin meter shows a maximum of 21 dBu, allowing you to monitor and adjust the input gain for optimal signal levels.

OUT (Output): The OUT meter shows the level of the processed signal leaving the MIMAS. The plugin meter shows a maximum of 24 dBu, ensuring the signal is not overdriven and helping manage the output level.

These three meters offer a comprehensive view of your audio signal, enabling effective management of levels, compression, and gain structure throughout the process.

8.4.1 Analog Meter Imitation

The _MIMAS incorporates an analog meter imitation that visually mimics the behavior of traditional analog meters, offering a more intuitive and dynamic representation of the signal processing. When multiple ratio aspects are engaged simultaneously, the needle on the analog meter reacts accordingly.

8.4.1.1 Key Points of Analog Meter Imitation:

Meter Behavior:

- Unlike digital meters that provide precise numerical readings, the analog meter on the MIMAS behaves similarly to vintage analog meters, with the needle moving fluidly behind the scale.
- This reaction is a characteristic of analog meters, which do not display gain reduction in a linear or exact manner like digital meters.

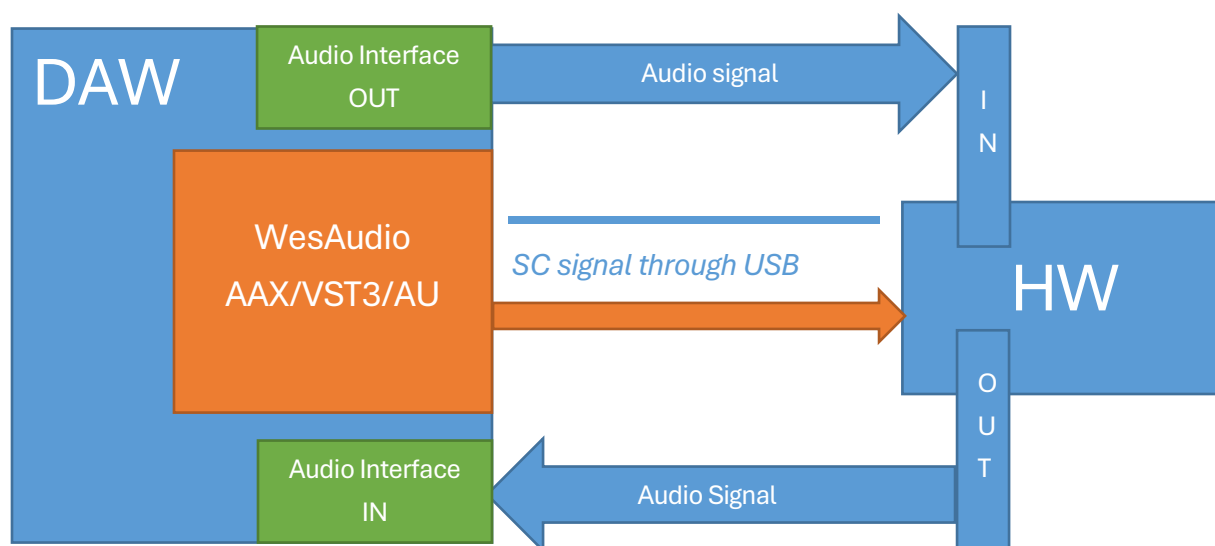
Behind the Scale Movement:

- The needle can move "behind the scale" during extreme compression settings, which is a typical response in analog meter designs. This creates a more organic, visual representation of the compression happening.
- However, it's important to note that when the needle moves behind the scale, it no longer shows the real gain reduction accurately. Instead, this behavior simulates the "feel" of analog metering, offering a more visually dynamic and expressive representation of the audio processing.

The analog meter imitation provides a familiar, tactile experience for users who appreciate the vintage look and feel, despite the scale not reflecting the exact gain reduction when the needle goes beyond its traditional range.

8.5 Sidechain

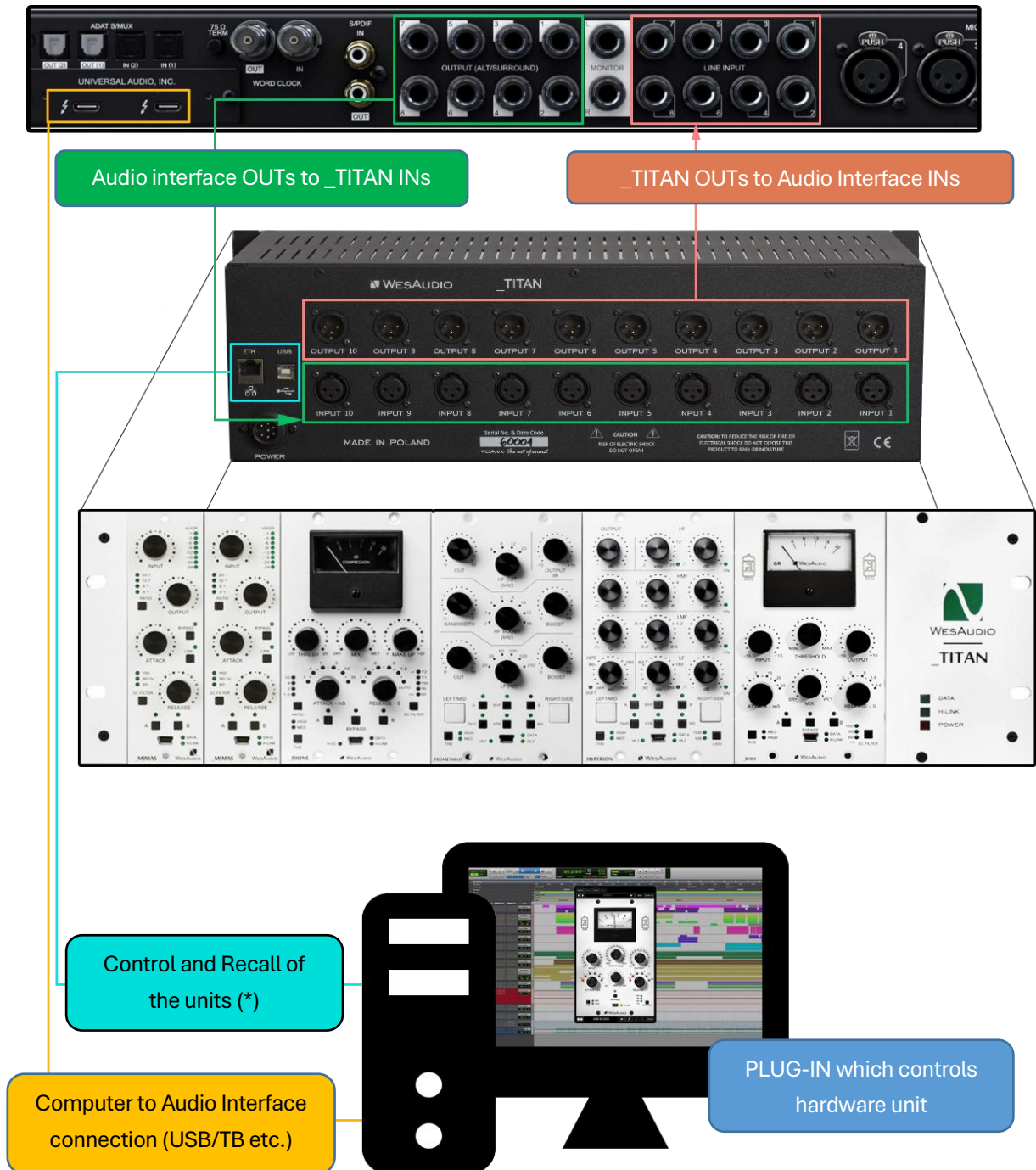
The sidechain feature allows you to send a sidechain signal from your DAW, using the plugin, directly to the unit to control the compression. No additional actions are needed on the hardware side to enable this feature; simply configure the sidechain signal within the WesAudio plugin, just as you would with any other plugin. Below is a high-level diagram showing a possible setup for connecting the hardware unit to use the sidechain feature.



9 Hookup Diagrams

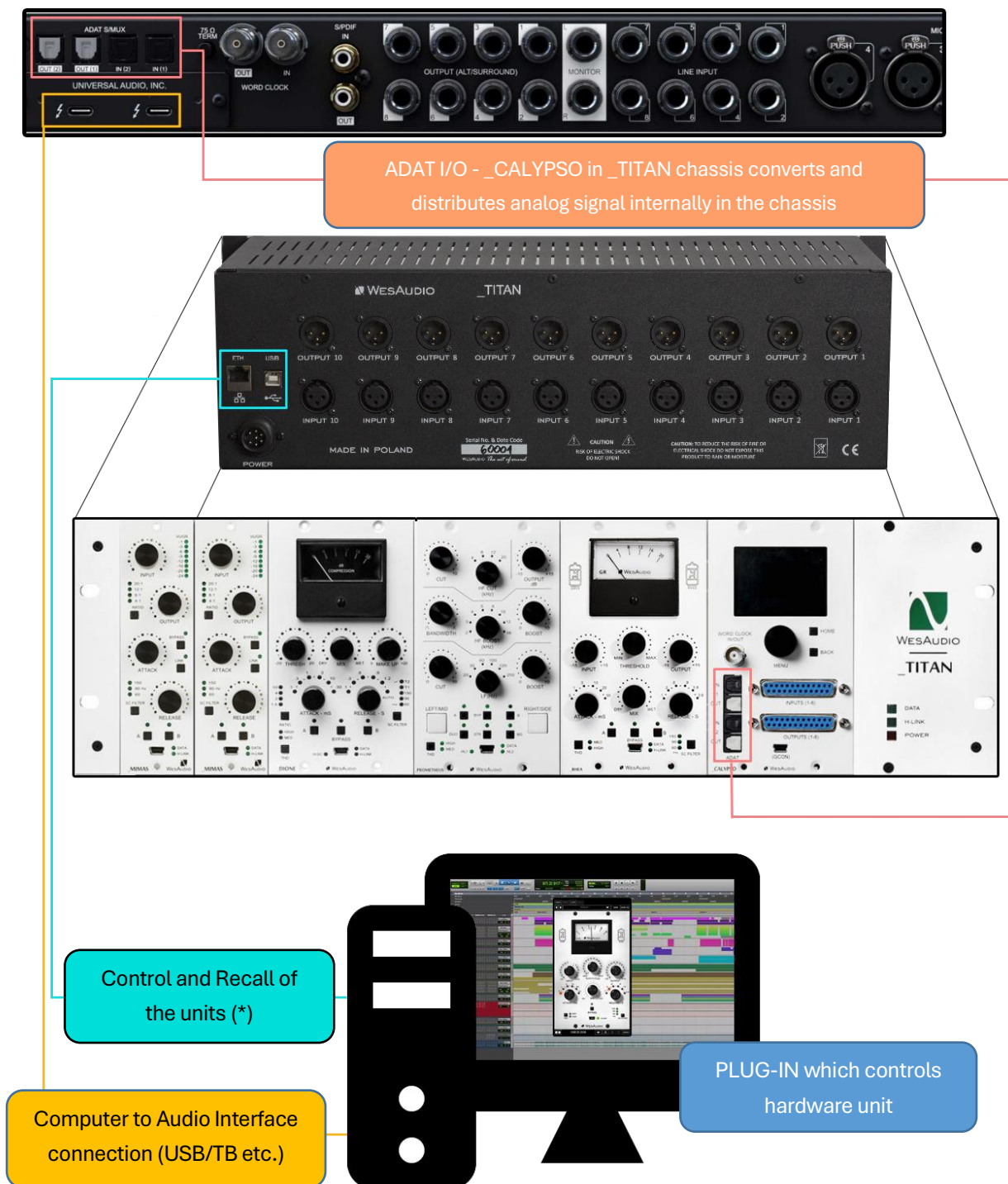
Below chapter shows possible hookup of the WesAudio devices and audio interface.

9.1 Hookup Diagram – Analog Cables with _TITAN



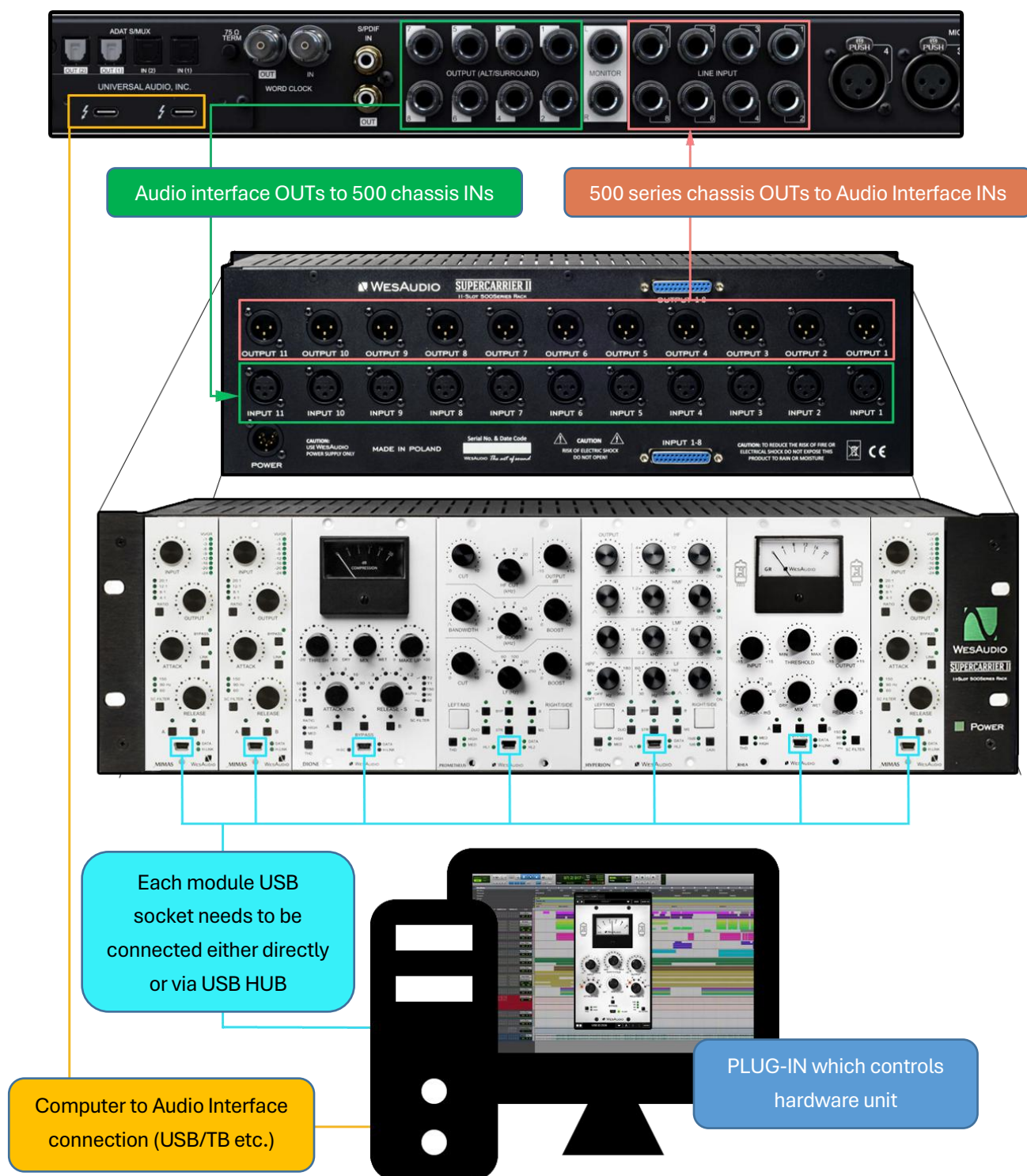
(*) Please note that the _TITAN Ethernet connection does not require a direct connection to a PC or Mac. You can also connect the _TITAN directly to a router, allowing you to access and control all units within the _TITAN via your local network.

9.2 Hookup Diagram - _CALYPSO and _TITAN



(* Please note that the _TITAN Ethernet connection does not require a direct connection to a PC or Mac. You can also connect the _TITAN directly to a router and use your local network to access and control all units within the _TITAN.

9.3 Hookup Diagram – 500 Series Chassis



9.4 Other Examples

Please note that all WesAudio units, despite their digital recall and control capabilities, remain fully analog and can be utilized at any stage of the production process, including recording and post-processing. For instance, like any other units, WesAudio modules can be seamlessly integrated during tracking.

10 Troubleshooting

If you encounter any of the following issues:

- No Sound Output or Signal Loss
- Unexpected Distortion
- Thumping or Low-End Artifacts
- Inconsistent Compression
- No Response to DAW Automation
- Excessive Heat

Please visit the WesAudio FAQ site <https://wesaudio.com/faq/> for detailed troubleshooting steps and solutions.

11 Abbreviations and Terms

GCon is a high-speed communication protocol developed to enable complete management and recall of analog devices. It's important to note that GCon is solely focused on device control and management; it does not facilitate the transfer of audio signals. This protocol is instrumental in bridging the gap between analog warmth and digital convenience, allowing users to enjoy the best of both worlds without compromising on sound quality or control flexibility.

NG500 represents the next generation in the 500 series format, offering advancements in technology and integration capabilities for audio processing hardware. This evolution maintains compatibility with existing standards while introducing improvements in power, connectivity, and digital control.

The NG500 connector is a specialized extension of the standard 500 series connector, incorporating additional pins to support enhanced features. These include digital control signals facilitated by the GCon protocol, power management improvements, and potentially other functionalities that exceed the capabilities of the traditional 500 series format. This connector ensures that NG500 series modules can leverage advanced digital control and management while maintaining the character and quality of analog audio processing.

12 Warranty

WesAudio is committed to delivering products of the highest quality, designed for durable and reliable performance over many years, assuming proper care, usage, transport, and storage. Our products come with a two-year warranty covering defects in parts and workmanship from the original date of purchase. This warranty is extendable to any future owner within the warranty period, ensuring uninterrupted coverage.

Warranty Coverage:

- The warranty is valid for two years from the date of the original purchase.
- It is transferable to any subsequent owner within this period.

Exclusions:

- The warranty does not cover normal wear and tear.
- It excludes damages due to misuse, negligence by the customer, accidental impacts, unauthorized modifications or repairs, cosmetic issues, and damages from shipping.

Warranty Service:

- Should a product exhibit defect in parts or workmanship during the warranty period, WesAudio will, at its discretion, repair or replace the defective components at no charge, assuming the customer provides valid proof of purchase.
- The product must retain its original factory serial number to be eligible.
- Customers are responsible for shipping costs to WesAudio for warranty service. WesAudio will cover the return ground shipping costs.

This comprehensive warranty underscores our dedication to quality and customer satisfaction, ensuring your WesAudio products perform flawlessly for years to come.