

Analog Sound Digital Recall



www.WesAudio.com



_TITAN

User manual

EN

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Thank You for the purchase of **_TITAN**

Ng500 compatible frame with digital control

With kind regards

Radoslaw Wesolowski and Michal Weglicki

NEXT-GEN 500 SERIES ANALOG CONTROL

_TITAN is a comprehensive recall system designed to fully integrate your analog equipment with modern digital workflows. It extends the traditional 500 series connector with additional pins, enabling support for digital recall and other advanced functionalities. This extension is part of the open "ng500" standard, allowing other manufacturers to design and implement digitally controlled analog devices.

We proudly present the **TITAN** – the future of analog processing.



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1 Overview

_TITAN is an advanced 10-slot 500 series rack frame designed for both analog and digital integration. It features the ng500 series connector, enabling full control over module parameters via GConManager software. The TITAN offers seamless audio routing through its Internal Audio Connector (I.A.C.) and is compatible with most 500 series modules. With robust power distribution, high-grade construction, and modern connectivity options like USB and Ethernet, the TITAN is an ideal solution for professional studios seeking flexibility and precision in their audio processing workflow.

2 Main Features

- **10-Slot Capacity:** Accommodates up to 10 standard 500 series or ng500 series modules, providing flexibility and integration for various studio setups.
- **A single USB or Ethernet connection is required to enable full recall and control of all modules installed in the _TITAN chassis. Without this connection, communication with the units will not be established.**
- **ng500 Series Compatibility:** Full digital control and recall capabilities for ng500 modules via the GCon protocol, allowing remote management and automation from your DAW.
- **Internal Audio Routing (IAC):** Integrated Internal Audio Connector (IAC) for direct signal routing between modules without the need for external cables. Ideal for streamlined integration with audio interfaces, analog summing modules, or patchbays.
- **Total Recall & Plugin Control:** Compatible units allow full automation and recall of analog settings within your DAW using VST2, VST3, AU, AAX, and AAX DSP plugins. This enhances workflow efficiency by seamlessly combining the warmth of analog gear with the precision and flexibility of digital control. Note that _TITAN itself does not have a dedicated plugin but supports plugin control for other connected devices.
- **High-End Power Supply:** Robust linear power supply capable of delivering 5A, ensuring stable operation and optimal performance for all connected modules.
- **USB and Ethernet Connectivity:** Offers both USB and Ethernet connections for easy integration with local networks or direct control via a computer, making it ideal for modern hybrid studio environments.
- **Stereo Linking:** Remotely controlled stereo linking of modules through the GConManager application, enabling precise stereo configurations with ease.
- **Firmware Upgradability:** Easy firmware updates for connected modules to keep your system up to date with the latest features and improvements.

3 Understanding the 500 and ng500 Series

3.1 Classic 500 Series

The 500 Series protocol is a modular audio processing standard widely used in the professional audio industry. Developed for flexibility and space efficiency, it allows audio engineers to build customized signal processing chains using individual modules like preamps, compressors, and equalizers.

Essential Components:

- **Modules:** Compact audio processing units that fit into a 500 Series chassis. Each module is designed to perform specific tasks, such as amplification or compression.
- **Chassis (Rack Frame):** A housing unit that holds multiple 500 Series modules. It provides the necessary power and connections for the modules and typically supports anywhere from 2 to 11 slots.
- **Power Supply:** Integrated into the chassis, the power supply provides the required voltage and current for all installed modules, ensuring stable and noise-free operation.

Key Benefits:

- **Modularity:** Allows users to easily mix and match different modules to create a tailored audio processing setup.
- **Space Efficiency:** Compact design makes it ideal for studios with limited rack space.
- **Cost-Effectiveness:** Enables incremental upgrades by adding individual modules as needed.
- **Compatibility:** Standardized format ensures interoperability across modules and chassis from various manufacturers.

3.2 Next Generation 500 Series

The **ng500 Series** is an advanced extension of the traditional 500 Series format developed by WesAudio. It preserves full compatibility with standard 500 Series mechanics and analog audio paths while adding a powerful layer of **digital control and communication**.

ng500 modules are still true **analog audio processors**, but they also include integrated digital control systems that allow parameters to be remotely managed, stored, and recalled from a computer or DAW environment when used in a compatible chassis such as _TITAN.

Essential Components:

- **ng500 Modules:** Analog audio processing units enhanced with digital control. Like standard 500 modules, they perform tasks such as compression, equalization, or saturation, but they also support software control, preset storage, and recall.
- **ng500 Compatible Chassis:** A chassis such as _TITAN that not only provides power and audio connections but also enables digital communication between modules and a computer via USB or Ethernet.
- **Digital Communication Layer:** An internal data connection within the chassis that links ng500 modules to control software. This allows settings to be stored, recalled, and automated without altering the analog audio path.

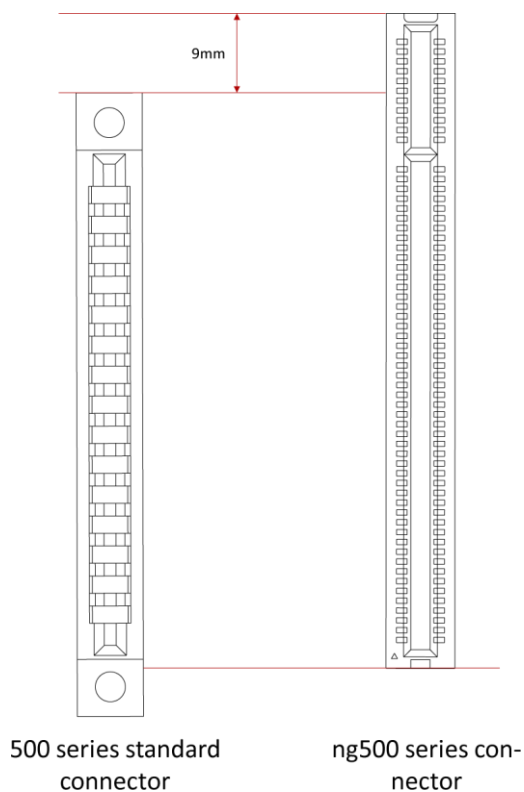
Key Benefits:

- **Total Recall:** All module settings can be stored and instantly recalled, making it easy to reopen sessions with exact hardware configurations.
- **DAW Integration:** ng500 modules can be controlled using dedicated plugins, allowing hardware to behave similarly to software processors within a digital workflow.
- **Automation:** Depending on the module, parameters can be automated directly from the DAW, enabling dynamic control that would be impossible with traditional analog-only hardware.
- **Hybrid Workflow:** Combines the sonic character and headroom of analog processing with the speed, precision, and repeatability of digital control.
- **No Audio Conversion:** The audio signal remains fully analog at all times. Digital technology is used only for control, not for processing or signal conversion.

3.2.1 Compatibility

_TITAN connector is designed to offer advanced functionality while maintaining compatibility with most 500 series modules. However, the ng500 series connector is slightly taller than the standard 500 series plug, meaning that some 500 series modules may not fit into the _TITAN frame. This issue is typically due to the design of the module's chassis at the back, which may obstruct proper installation.

For more information about compatibility please refer to [_TITAN compatibility list](#).



As shown in the image above, the ng500 series connector is 9mm taller compared to the standard 500 series socket. Please note that the connectors are aligned based on their corresponding pins. To confirm if your modules are compatible with the _TITAN frame, feel free to send an inquiry to info@wesaudio.com, including a description of the modules you intend to use.

4 Hardware

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

4.1 Specification

Power consumption (empty frame)	7W
Power consumption (Max per slot)	250mA/+16V and 250mA/- 16V (totall: 500mA)
Unit dimensions	135x483x190 mm
Box dimensions	274x550x382 mm
Unit weight	4,2 kgs
Power supply weight	1,75 kgs
Box weight	7,85 kgs
Warranty	2 years

4.2 Installation

After unpacking your _**TITAN** frame, please check for any visible damage that may have occurred during transit. If there is any problem, please contact your dealer immediately for advice on what to do.

Modules Installation Walkthrough:

- Choose the position in the rack where you will install the module and slide it in so that the edge connector of the module aligns with the matching connector in the rack.
- A gentle push should allow the module to slide securely into the rack connector.
- Attach the front panel of the module to the front of the rack using screws supplied by your rack manufacturer. This is important for mechanical rigidity.
- Do not overtighten these screws to avoid stripping the threads.
- Apply power, test that everything is working properly, and most importantly, enjoy!

!Ensure the rack is completely powered down before attempting module installation to prevent damage to the frame!

4.3 Front Panel

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1. Front panel LEDs:

- **Data LED:** Indicates that data is actively being transmitted from the host application to the device, confirming communication for control and recall.
 - **H-LINK LED:** Displays the status of the link with the host application, showing whether the device is properly connected and synchronized.
 - **POWER LED:** Shows whether the device is powered on or off
2. **Slots:** Slots: Numbered slots designed to accommodate 500 series modules, each slot equipped with independent power and digital control capabilities.
 3. **Stereo Link Button:** Allows the user to link two adjacent channels in the _TITAN frame for stereo operation, ensuring both modules work together in synchronized stereo processing.
 4. **Detector Link:** Allows two NG500 modules to be **linked as a stereo pair**, so their processing and controls act together.

H-LINK note:

If this LED is blinking continuously, it indicates that the TITAN is in upgrade mode. A firmware update should be initiated using the GConManager application.

4.4 Rear Panel

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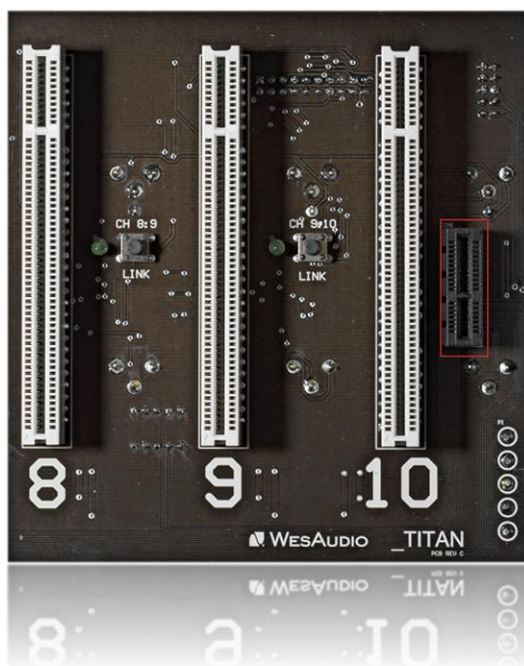
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1. **XLR Inputs and Outputs:** The rear panel has XLR input and output connectors for each slot.
2. **Ethernet socket:** Enables network access for remote control and automation of modules within your local network.
3. **USB socket:** The USB socket provides a direct connection to your workstation, allowing for module control, firmware updates, and full settings recall via the GConManager application.
4. **Power Input:** Supplies power to the _Titan, ensuring stable and reliable operation for all modules.
5. **Serial number.**

Note: Use either Ethernet or USB for module control, do not connect both simultaneously.

4.5 I.A.C. - Internal Audio Connector

The _TITAN rack frame features a powerful internal audio routing system known as the **I.A.C. (Internal Audio Connector)**. This proprietary connection system, integrated next to **slot 10** of the frame, facilitates **direct audio signal transmission** between modules installed in **slots 1 to 8**, eliminating the need for external patching cables.



4.5.1 Integration with _CALYPSO

How I.A.C. Works with _CALYPSO:

- **Selectable audio source for each module:**
 - **Rear XLR input** (standard external analog signal),
 - **Digital-to-Analog signal from _CALYPSO** (routed internally via I.A.C.).
- **Signal Flow:**
 - A digital signal from the DAW is sent to _CALYPSO.
 - _CALYPSO performs D/A conversion and routes the analog signal internally to the selected module via I.A.C.
 - The module processes the signal.
 - The processed signal is then:
 - Sent out through the module's XLR output, or
 - Internally routed back to _CALYPSO for A/D conversion and returned to the DAW.
 - **All of this happens without any external patching or cables.**

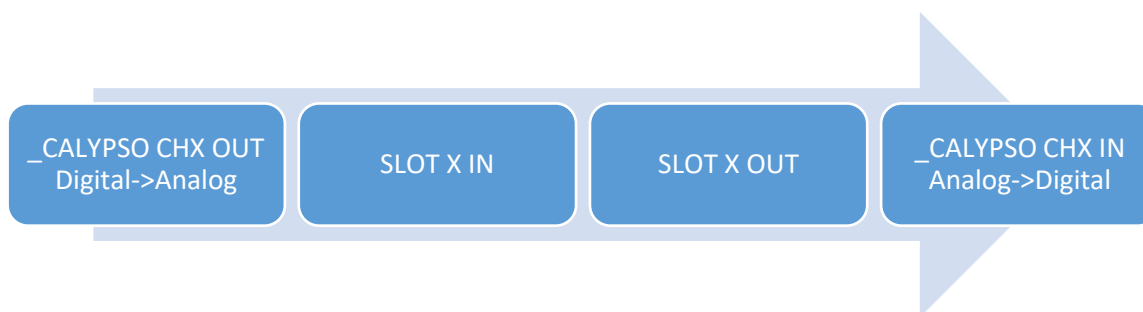
I.A.C. options:

- **I.A.C. OFF** – Traditional analog routing through rear XLR connectors. External patching is required.
- **I.A.C. ON** – Full internal routing with _CALYPSO handling both source and return paths digitally and transparently.

For more information, please refer to the _CALYPSO manual.

4.5.2 Signal Flow

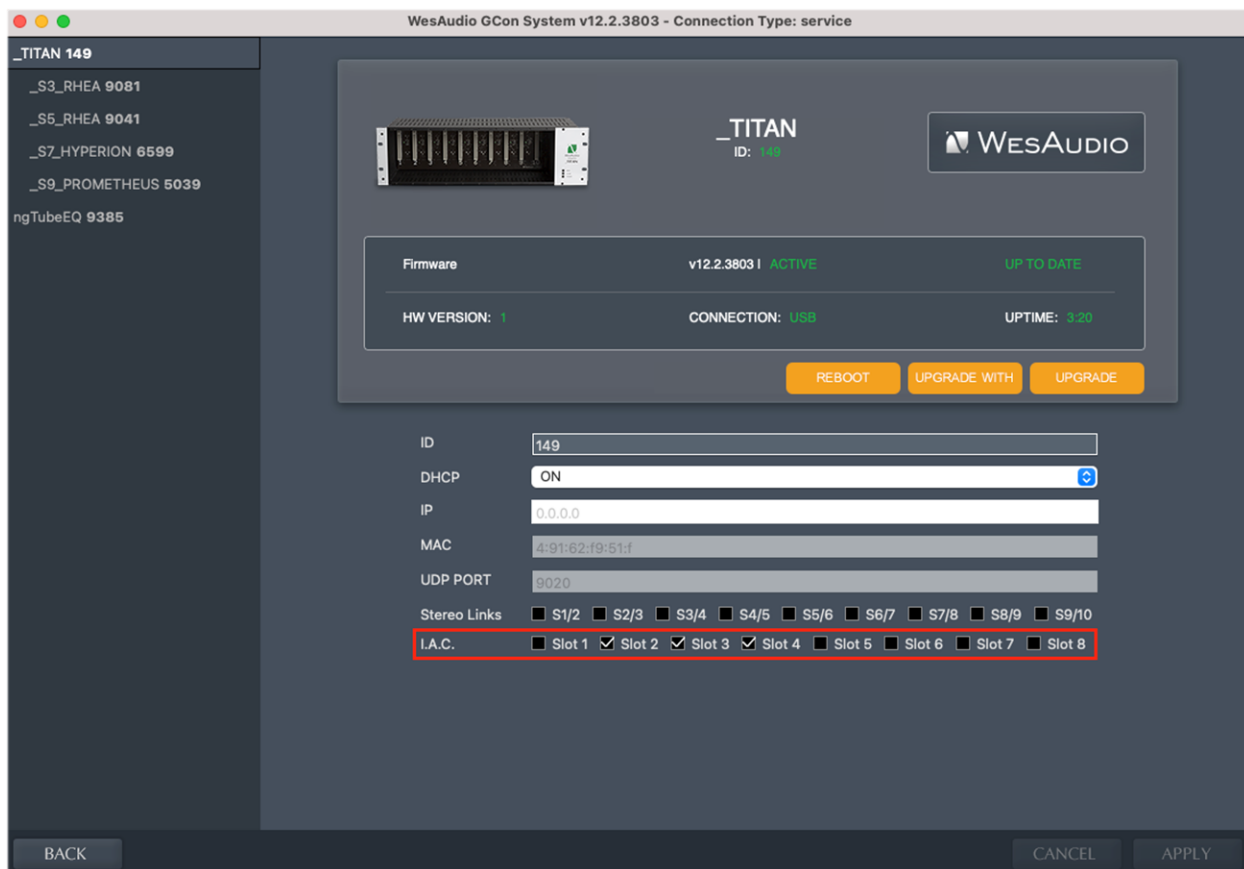
The diagram below shows the signal flow when the I.A.C. connector is used to integrate the _CALYPSO module with the _TITAN chassis.



- **SLOT X** – Refers to slots 1 through 8 in the _TITAN chassis.
- **CHX** – Corresponds to channels 1 through 8 of the _CALYPSO module.
- **Note:** In this configuration, each _CALYPSO ADAT channel is directly mapped to the corresponding _TITAN slot (e.g., CH1 → Slot 1, CH2 → Slot 2, etc.), providing a clear and intuitive signal flow.

4.5.3 Configuration and Source Selection

The special connector can be configured on a **per-slot** basis using the GConManager's "Config" application, providing precise control over the audio routing functionalities within the rack system.



The I.A.C. system is fully configurable via the **GConManager** software suite:

- Each slot's internal routing can be adjusted using the "**Config**" tab within the application.
- Signal flow can be directed **into or out of each module**, allowing complex signal chains and flexible reordering without hardware changes.
- Connector next to slot 10 acts as the **central I.A.C. management module**—either hosting the interface/summing module itself or acting as a gateway to other systems.

4.6 Stereo Links

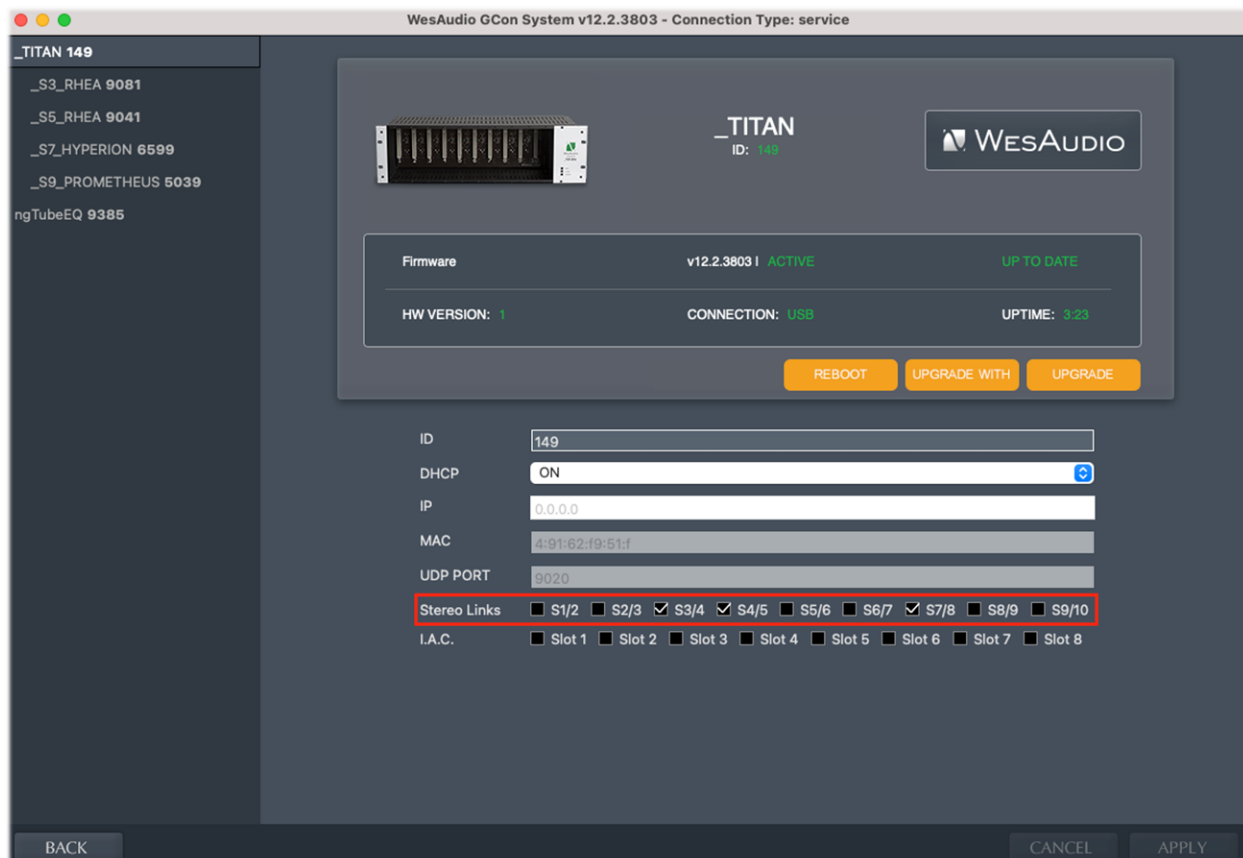
_TITAN's each slot can be stereo linked, and that functionality can be activated in several ways.

4.6.1 Stereo Link Buttons

This function, known as the **Stereo Detector Link**, allows selected slots to work together for precise stereo processing. Each slot features a special internal button on the PCB that activates or deactivates the link. Pressing the button once enables the stereo link; pressing it again disables it. A dedicated LED next to each button clearly indicates the current link state.

4.6.2 Stereo Links in GConManager

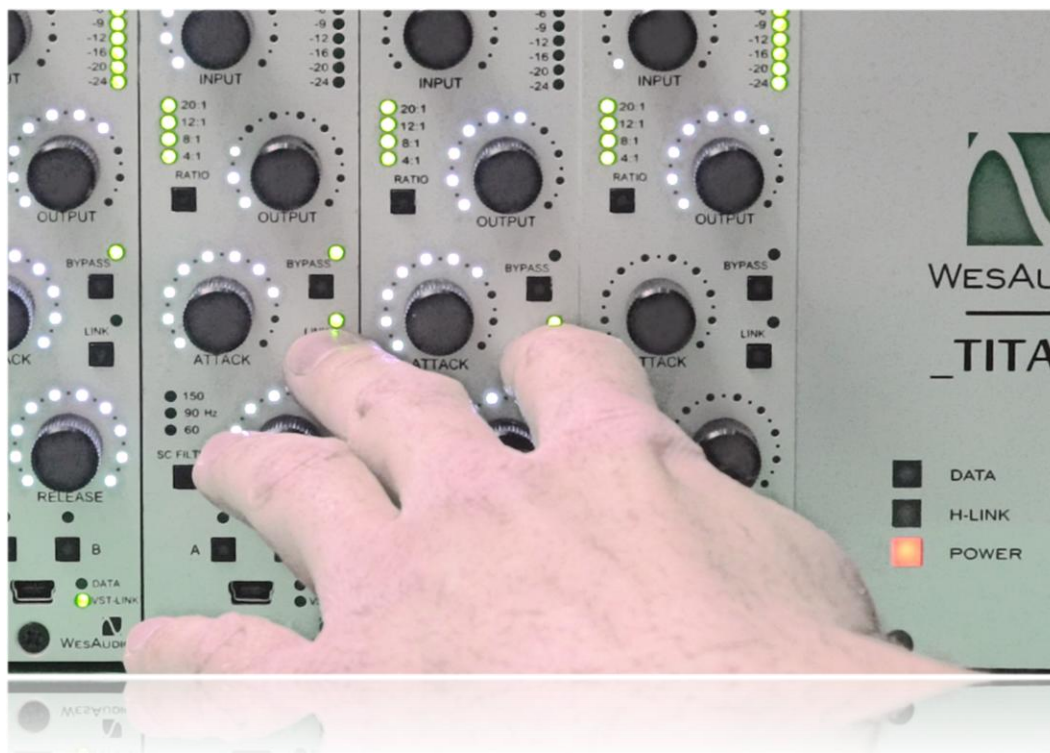
GConManager “**CONFIG**” application can be used to change stereo link states:



Also, when stereo link in GConApplication will be engaged, and those two affected slots host GCon compatible devices (with stereo linking capabilities e.g. WesAudio _Mimas), link state will be set accordingly for both modules.

4.7 Stereo Links Integration with GCon Compatible Modules

GCon-compatible modules that support detector linking (such as the WesAudio _MIMAS) can synchronize their link state through the _TITAN frame. When the **link buttons** on two compatible modules are pressed **simultaneously**, the detector link is automatically activated in the frame.

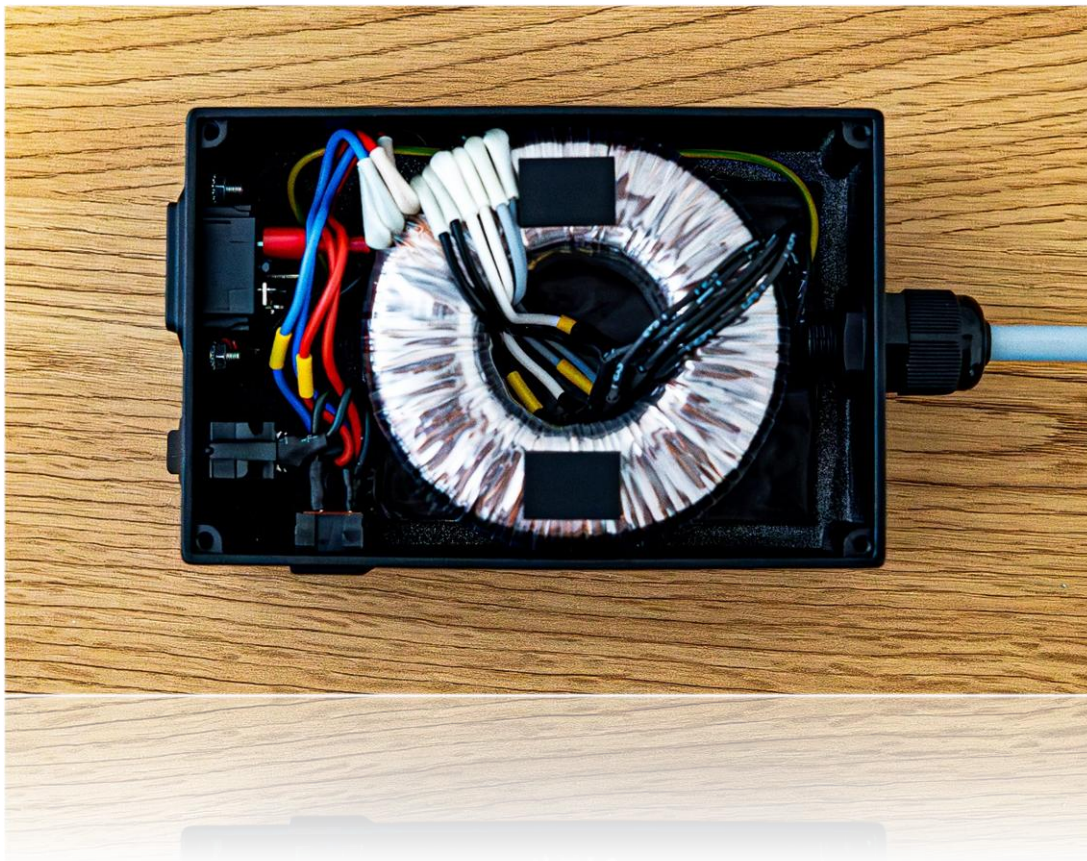


When a plugin has a **Detector Link** button, it can be **activated by clicking it or is automatically recognized by the plugin**, and during recall, the Detector Link state is restored automatically according to the saved session.

Important Notes:

- Detector linking always occurs **in pairs** (e.g., Slot 1 & 2, Slot 3 & 4).
- The system does not currently support advanced linking configurations, such as odd pairings (for example, linking slots 1 and 3, 2 and 5, etc.), or linking more than two modules at once (e.g. it is not possible to link four MIMAS units for simultaneous control).

4.8 External Power Supply

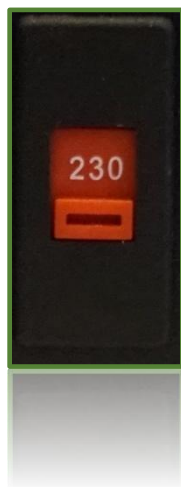


This power solution is a highly advanced, high-end linear system built around a toroidal transformer. As a linear power supply, it delivers exceptionally stable and clean voltage, crucial for minimizing noise and interference. The toroidal transformer further enhances its performance, making it an ideal choice for achieving the highest audio quality in professional setups. This ensures reliable and consistent power delivery to all connected audio modules, maintaining the integrity of the sound throughout the system.

4.9 Voltage Selector and Fuses

4.9.1 Voltage Selector

_TITAN can be configured to operate at either 230V or 115V. Please note that your unit is pre-configured for the specific sales region, including the appropriate fuse setup for either 230V or 115V. If you need to change the voltage configuration using the power selector, make sure to also use the correct fuse for the new voltage setting.

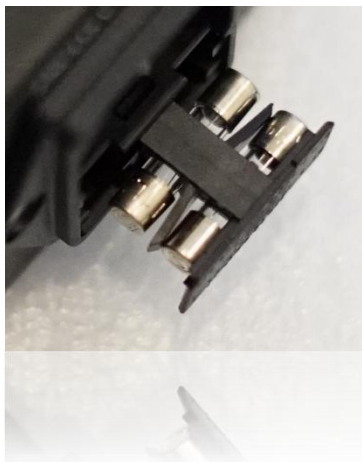


For proper operation, you can change the voltage and ensure the correct fuse is installed based on your voltage setting. Use:

- **2A fuse (ZKT – 2A) for 115V**
- **1A fuse (ZKT – 1A) for 230V**

Important: Incorrectly setting the voltage selector can cause severe damage to the unit and result in the fuse blowing. For example, if the voltage selector is set to 115V while connected to a 230V supply, the unit may experience overloading, leading to a blown fuse and potential harm to the device.

4.9.2 Spare Fuses



A spare fuse is included in the power supply, allowing you to quickly swap it with the primary fuse when needed.

4.9.3 Replacing the Fuse

In the event of a blown fuse, follow the instructions below to safely access and replace it.

Important: Ensure that the unit is powered off and the power cord is disconnected from the power source before proceeding.

4.9.3.1 Opening Fuse Holder

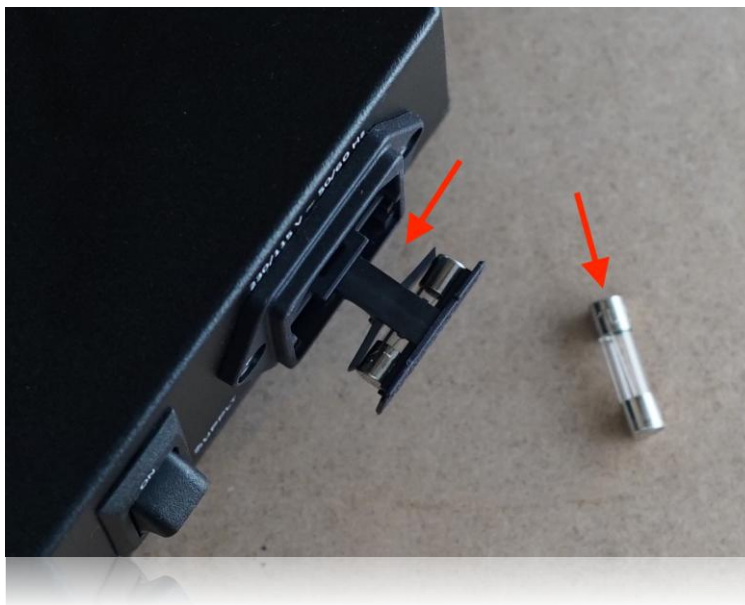
To open the fuse holder, use a small flat-head screwdriver.

1. Insert the screwdriver into the slot of the fuse holder.
2. Gently pull the fuse holder open, as illustrated in the image below.



4.9.3.2 Changing the Fuse

Once the fuse holder is open, proceed with the following steps:
Remove the blown fuse (marked with indicators) by gently pressing on it until it disengages and drops out of the holder, as shown in the picture below.



Take the spare fuse located in the adjacent slot and insert it into the position of the removed fuse.



Close the fuse holder securely.

Your device is now ready for use.

5 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.

5.1 Installation Process

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

5.1.1 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.

5.1.2 For OSX Users

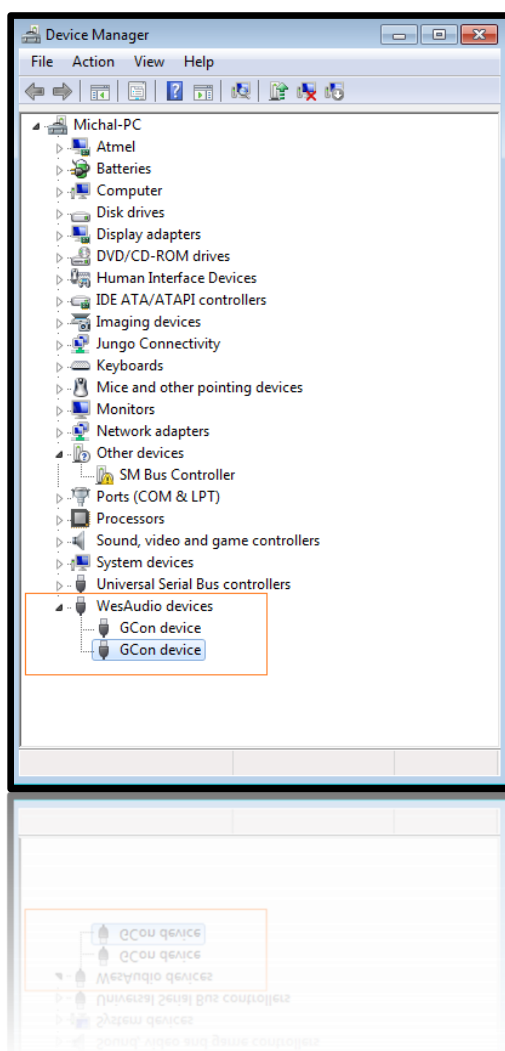
Due to the simpler nature of OSX architecture and its handling of USB devices, the primary consideration is to ensure all devices are connected before beginning the installation process. Once you initiate the installer application, you might encounter system warnings regarding the installer. In such 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.

5.1.3 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.



5.2 GCon Manager

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

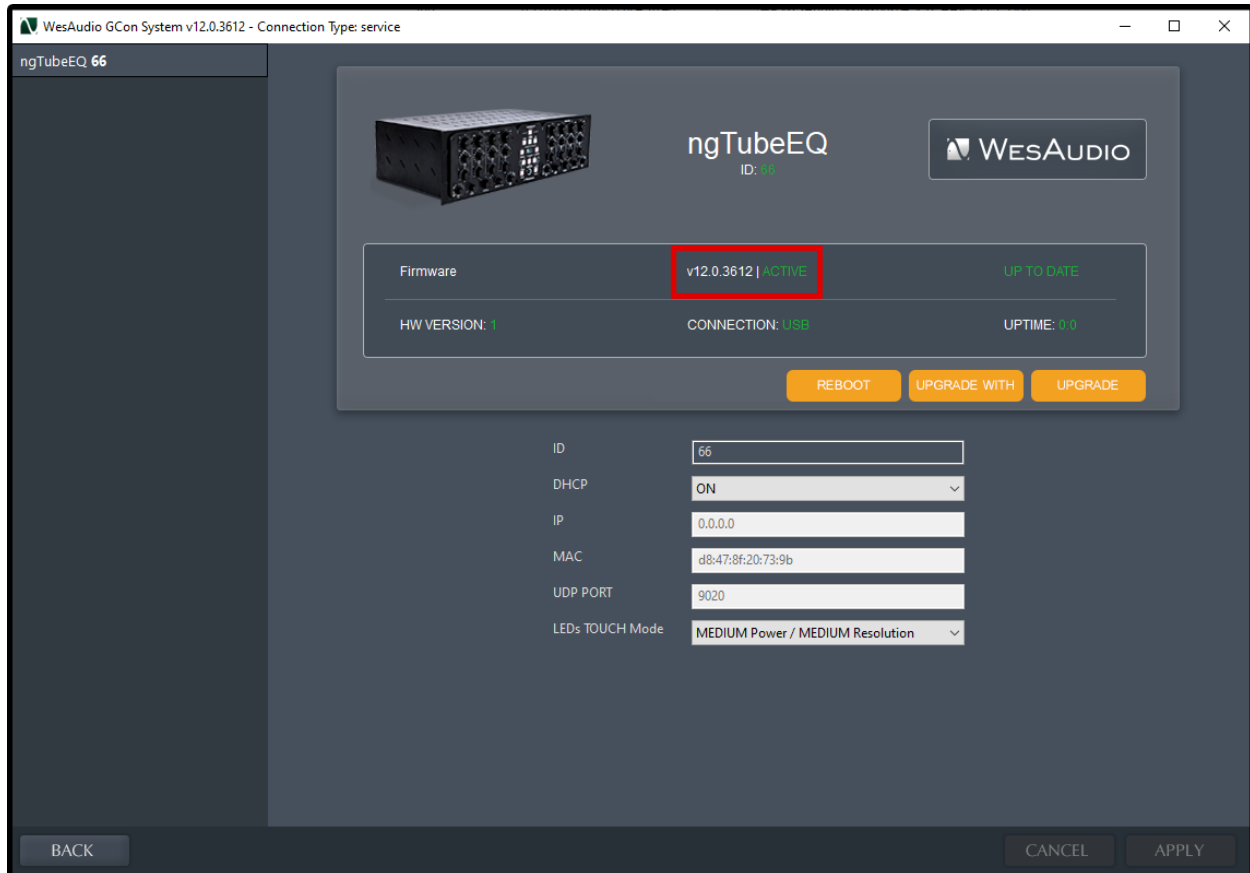
- **For OSX:** Access it at “/Applications/WesAudio/GConManager.”
- **For WINDOWS:** Find it in the folder chosen during the installation phase, typically “c:/Program Files x86/WesAudio/GConManager.exe” by default.

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).

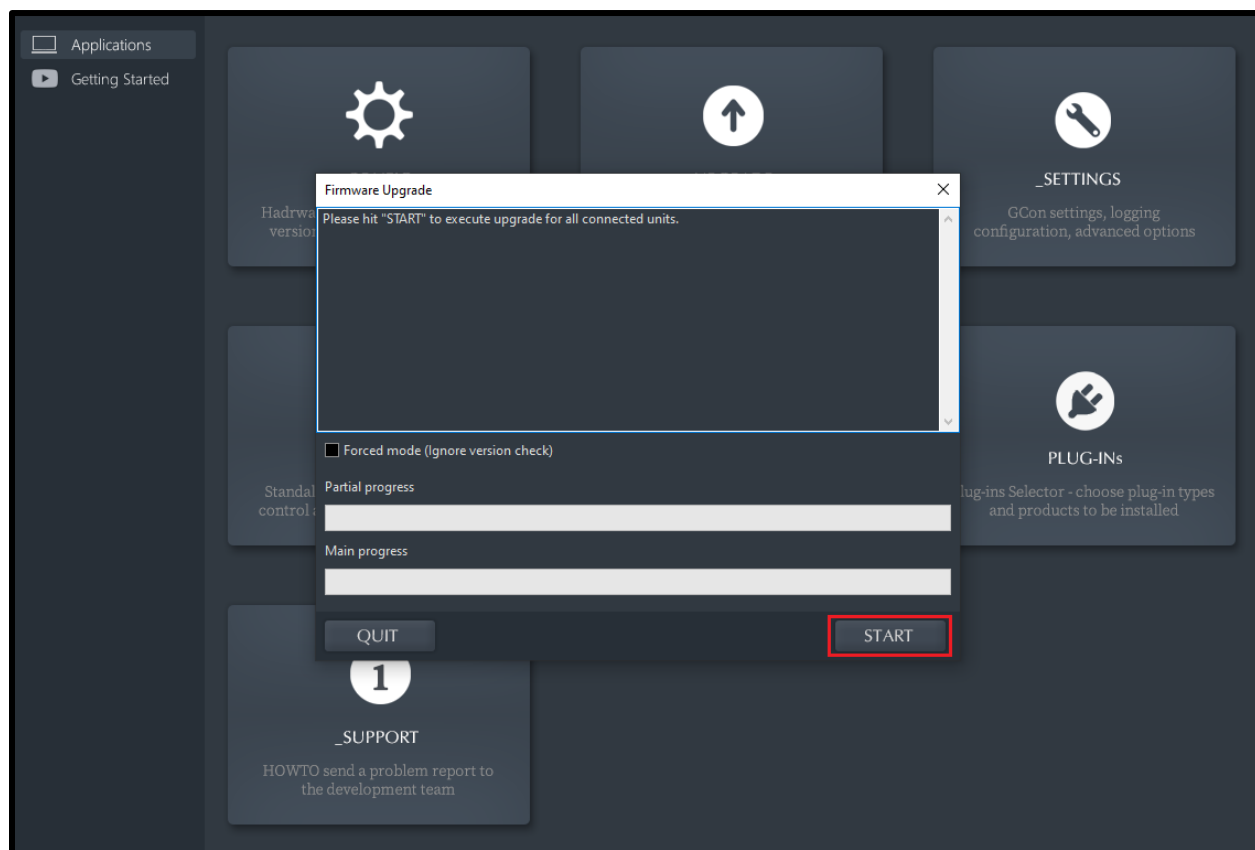
5.3 How To Check Firmware Version

Each device communicates its firmware version to your workstation, establishing compatibility between your host application and the connected device. To verify the firmware version or perform an upgrade, please use the GConManager _CONFIG application.



5.4 How To Perform Firmware Upgrade

To update the firmware, navigate to the GConManager UPGRADE section and press the “Start” button. This starts the update process for any modules that do not have the latest firmware version.



5.5 Set up GCon Connection

This chapter outlines potential setup configurations and details the primary steps for configuration.

It's important to recognize that audio signals should be transmitted through XLR connectors. The USB and Ethernet ports are designed solely for managing unit configurations using the GCon Protocol.

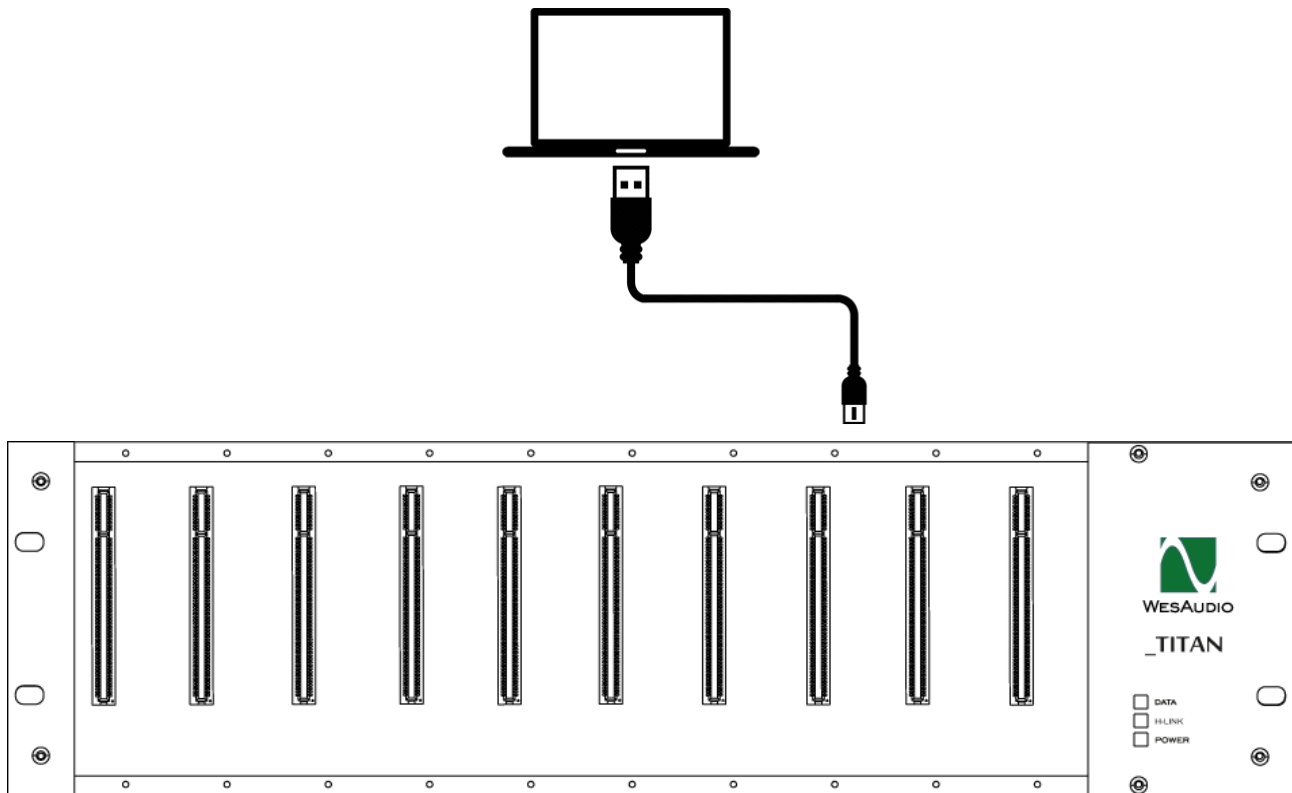
Broadly speaking, the _TITAN supports two types of connections:

- **USB 2.0** or higher.
- **Ethernet 10/100**, utilizing the UDP protocol for LAN within a single subnet.



5.5.1 USB

To directly link your _TITAN unit to your workstation, simply use a USB cable to connect it to any available USB 2.0+ port on your computer.

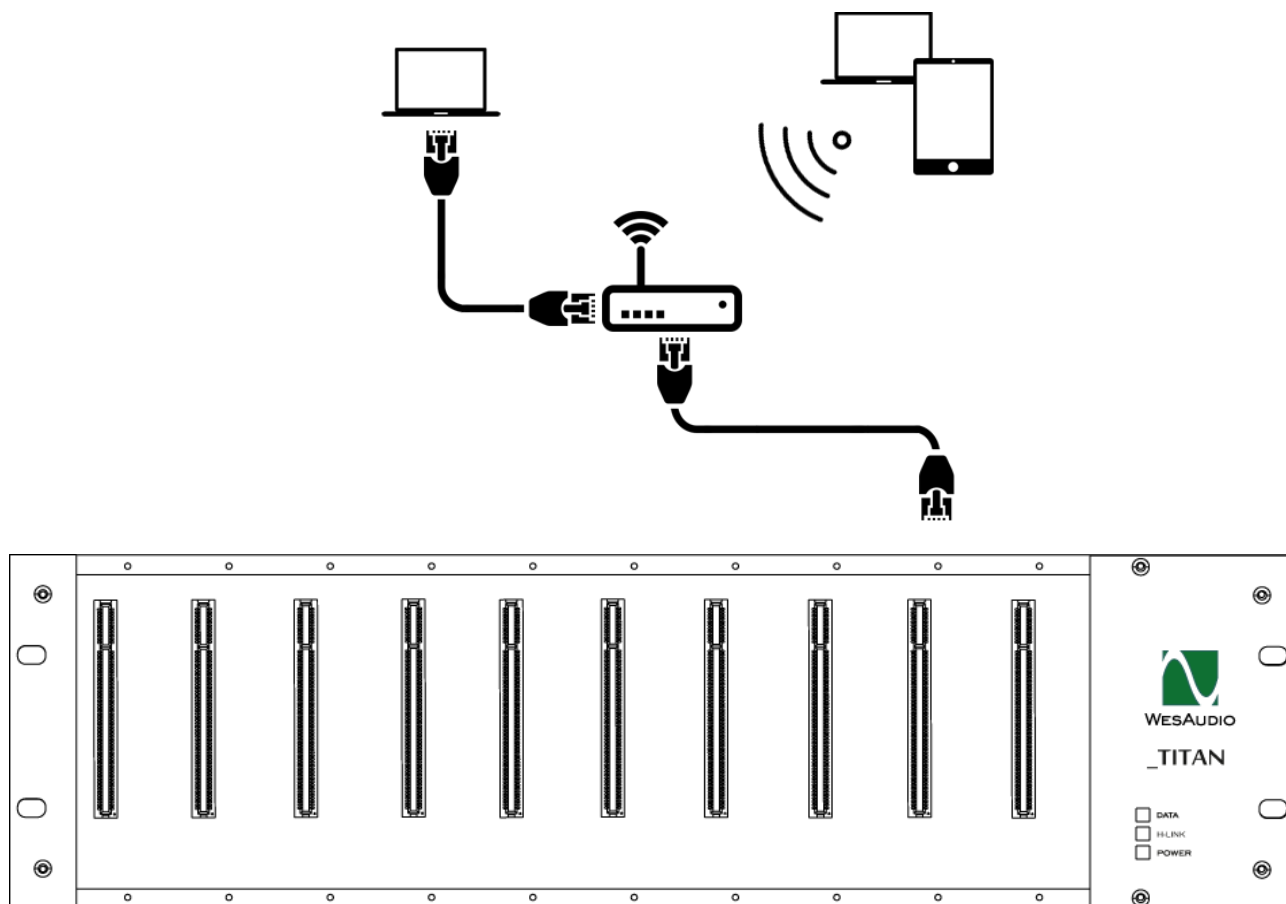


5.5.2 Ethernet

_TITAN, like any network-enabled device, offers flexibility in connectivity to your workstation through the following methods:

- **Local Area Network (LAN) Connection:** By integrating the _TITAN into your LAN, it becomes accessible from various devices within the network, allowing for versatile placement and usage within your studio environment.
- **Direct Workstation Connection:** For a straightforward setup, the _TITAN can be directly connected to your workstation. This method is ideal for simple, one-to-one configurations without the complexity of a network.

In certain scenarios, it might be necessary to manually assign IP addresses to both your workstation and the _TITAN to ensure proper communication and functionality. The following illustrates a typical setup within a local area network, showcasing how different devices can interact with and utilize the _TITAN's features:



5.5.3 Default network configuration via DHCP

_Titan unit is set to utilize **DHCP by default**, making it straightforward to connect your _TITAN to your router—simply plug it in, and you're good to go! If you're interested in altering this setup, the following next chapters will guide you through changing the configuration. To establish static IP addresses for your devices, you must undertake two key steps:

Disable DHCP: This ensures that your device does not automatically obtain an IP address from the network, allowing for manual configuration of a static IP address.

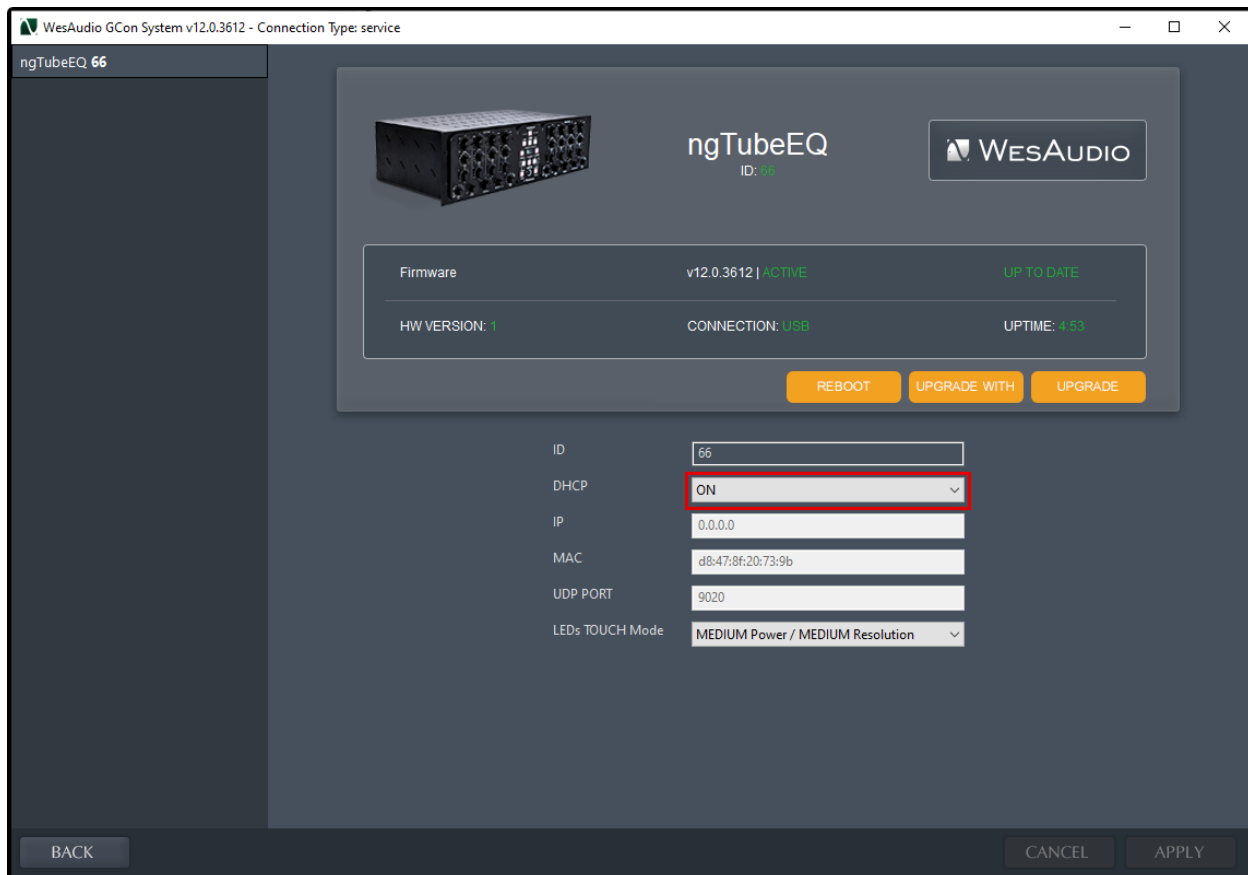
Configure a Static IP Address: Once DHCP is disabled, you can assign a specific, unchanging IP address to your device.

Detailed instructions for both procedures are provided in the subsequent chapters.

5.5.4 Enable/Disable DHCP

To toggle the DHCP setting on your _TITAN unit to either enabled or disabled, follow these steps:

- **USB Connection:** Begin by connecting your _TITAN directly to your workstation using a USB cable. This step is crucial because altering network configurations might result in a loss of connectivity with your device. A direct USB connection will remain as a fallback for reconfiguration.
- **Launch GConManager:** Open the GConManager software and proceed to the _CONFIG application.
- **Select Your Device:** Within GConManager, find and select your _TITAN from the list displayed in the elements tree on the left side.
- **Adjust DHCP Setting:** Modify the DHCP option to match your requirements—either turning it "ON" for automatic IP address assignment or "OFF" for static IP configuration. Following this adjustment, the unit will undergo a restart, after which your connection to the _TITAN should automatically re-establish.



Before transitioning from a USB connection to Ethernet, it's crucial to configure the appropriate IP address on your _TITAN. This setup ensures seamless communication between the device and your network. The subsequent chapter will guide you through the process of establishing the correct IP settings.

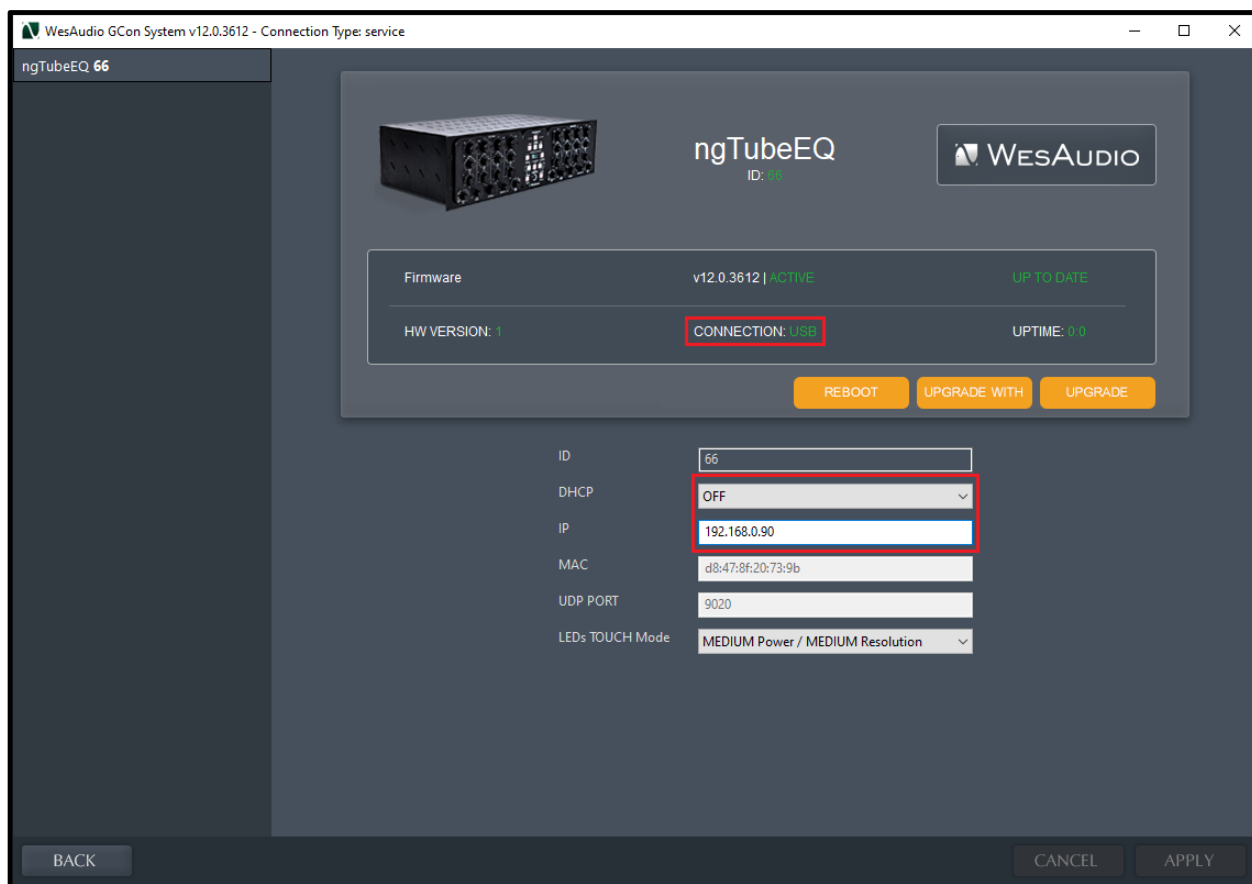
5.5.5 Set Up Static IP Address

There are a few situations where manually configuring the IP address for your _TITAN might be necessary:

- **Non-DHCP Router:** If your router does not support DHCP, you will need to manually set the IP address to ensure the _TITAN can connect to the network.
- **Manually Configured LAN:** For networks set up with manual configurations, such as through a hardware switch, your _TITAN will require a manual IP setup to match the network's settings.
- **Direct Workstation Connection:** If you prefer to connect your _TITAN directly to the Ethernet port on your workstation, a manual IP configuration is needed for the device to communicate effectively with your computer.

To configure the IP address for your _TITAN, the process is similar to setting up other devices, with slight adjustments for device-specific steps. Here's how you do it:

- **USB Connection:** Initially, connect your _TITAN directly to your workstation using a USB cable. (If you've already established a connection to the _Titan via an Ethernet cable and can access its settings, this step might not be necessary).
- **Launch GConManager:** Open the GConManager software on your computer and proceed to the "_CONFIG" application.
- **Select Your Device:** From the device list on the left side of the screen, select your _TITAN unit.
- **Adjust DHCP Settings:** If the DHCP option is enabled ("ON"), change it to "OFF." This will necessitate a restart of the unit, after which the connection should automatically be re-established.
- **Set the IP Address:** Input the IP address you wish to assign to your _TITAN in the provided field and press the 'Apply' button. The unit will undergo a restart to apply the new network settings. Once it powers back up, the connection with your _TITAN will be re-established under the new IP configuration.
- **After successfully configuring the IP address,** you can now disconnect the USB cable from your _TITAN and connect it to your network using an Ethernet cable. This will enable network-based communication and control according to the new settings you've applied.



5.5.6 Direct connection – setting IP address on PC/MAC

Connecting your _TITAN directly to a Mac or PC via Ethernet requires a few steps to ensure seamless communication. Here's a concise tutorial to guide you through the process:

For Both Mac and PC

Step 1: Prepare Your Equipment

- Ensure you have a standard Ethernet cable available.
- Your _TITAN should be powered off before making any connections.

Step 2: Connect the Ethernet Cable

- Plug one end of the Ethernet cable into the Ethernet port on your _TITAN.
- Connect the other end of the Ethernet cable to the Ethernet port on your Mac or PC.

For Mac

Step 3: Configure Network Settings

- Go to **System Preferences > Network**.
- Select the Ethernet connection from the list on the left. If it's not already configured, it may appear as a new connection with a green dot and say "Connected".
- Click on the "Advanced" button, then go to the TCP/IP tab.
- Configure the IPv4 setting to "Manually" or "Using DHCP with manual address", depending on your needs.
 - If selecting "Manually", enter the IP address that matches the network settings of your _TITAN.
- Click "OK", then "Apply" to save your settings.

For PC (Windows 10/11)

Step 3: Configure Network Settings

- Go to **Settings > Network & Internet > Ethernet**.
- Click on your Ethernet connection.
- Scroll down and select **Edit** under IP assignment.
- In the Edit IP settings drop-down, choose "Manual".
- Enable "IPv4" by toggling it On, then fill in the IP address, Subnet mask, and Gateway based on your _TITAN network settings.
- Click "Save" when done.

Final Step for Both Mac and PC

- Power on your _TITAN.
- Ensure any necessary software or drivers for _TITAN operation over Ethernet are installed on your computer.
- If required, adjust the _TITAN's network settings to ensure they are compatible with your computer's network configuration. This might include setting a static IP address on the TITAN that is in the same subnet as your computer but outside your DHCP range to avoid IP conflicts.

You should now be able to communicate directly between your _TITAN and computer via Ethernet, allowing for device management and control without a router or network switch.

6 Troubleshooting

If you encounter any of the following issues:

- No Sound Output or Signal Loss
- No power to the modules.
- Blown fuse after switching voltage settings.
- Intermittent power to certain slots.
- External power supply overheating.

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

7 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.

I.A.C. (Internal Audio Connector) is a specialized connector integrated within the TITAN system, enabling direct internal audio routing. It allows audio signals to be transmitted without the need for external cabling, providing a streamlined and efficient connection. For more details, please refer to the "I.A.C. – Internal Audio Connector" chapter.

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.

UDP (User Datagram Protocol) is a low-latency communication protocol commonly used in audio applications where real-time transmission is crucial. It enables audio data to be transmitted without connection setup or error correction, which reduces latency but may result in occasional packet loss. This trade-off is acceptable in scenarios such as live audio streaming or VoIP, where immediate delivery is prioritized over perfect accuracy to ensure seamless audio playback.

8 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.