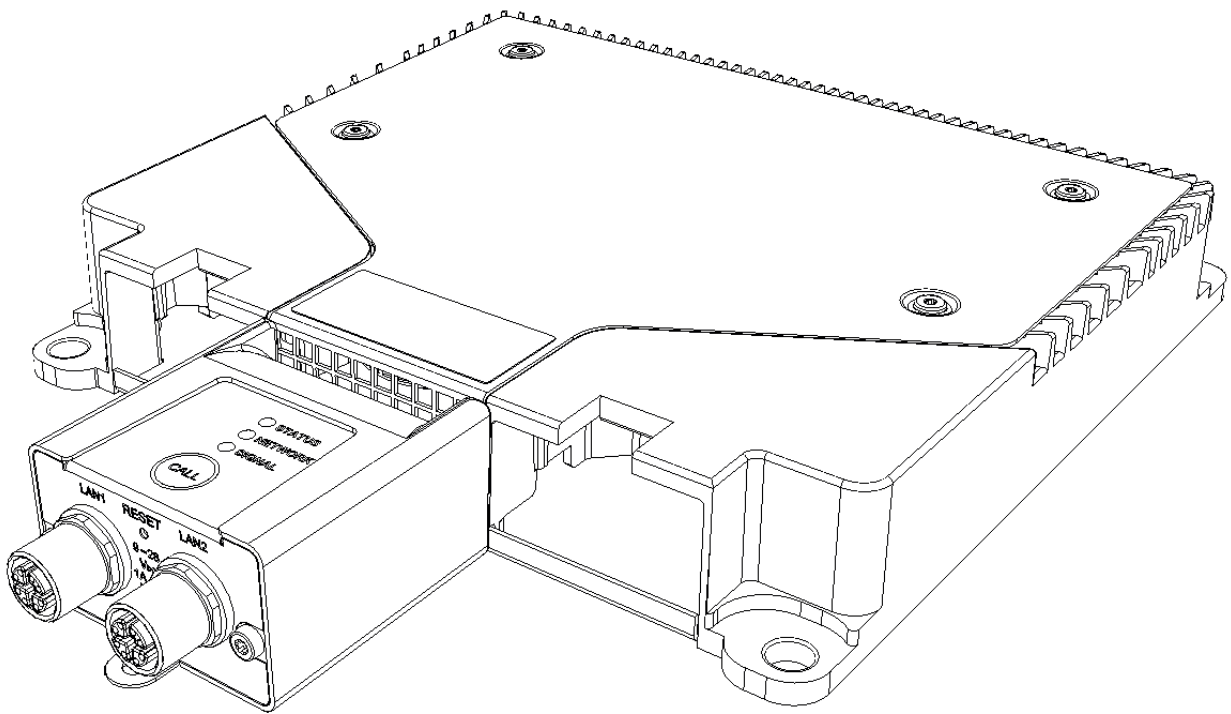


DC Rider

USER GUIDE

DC Rider 408
DC Rider 8016



EC Declaration Of Conformity

Manufacturer:
Powersoft S.p.A.
via E. Conti 5
50018 Scandicci (Fi)
Italy



We declare that under our sole responsibility the products:

Model Names:

DC Rider 8016

DC Rider 408

Intended use: Aftermarket amplifier sold separately, intended for use in a vehicle.

Are in conformity with the provisions of the following EC Directives, including all amendments, and with national legislation implementing these directives:

2014/30/EU Electromagnetic Compatibility Directive

2011/65/EU RoHS Directive

The following harmonized standards are applied:

EN 50498: 2010

Scandicci,
Jan 2026

For compliance questions only: compliance@powersoft.it

Marco Cati
Quality & After Sales Manager

A handwritten signature in black ink that reads 'Marco Cati'.

Warranty and Technical Service

This product is covered by a limited warranty.



This Powersoft product contains no user-serviceable parts. All warranty repairs must be carried by a certified technician operating in a Powersoft Authorized Service Centre.

Contact The Authorized Service Center For Ordinary And Extraordinary Maintenance.

To learn more about warranty terms and conditions, visit powersoft.com/warranty

For any service related enquiry, please visit powersoft.com/en/product-repair/

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INTRODUCTION

Welcome

Thank you for choosing Powersoft DC Rider amplifier

The DC Rider is a DC-powered, compact amplifier engineered for ultra-high-end audio applications in theme park attractions.

Specifically designed to meet the rigorous demands of thrill rides such as dark rides, roller coasters, parade floats, and other battery-operated attractions, the DC Rider delivers high channel counts and exceptional audio quality.

It effectively drives loudspeakers, subwoofers, and haptic transducers to provide an immersive audio experience.

This new On Board Audio (OBA) multi-channel amplifier from Powersoft is purpose-built for rides that require a DC power supply and multiple channels, making it ideal for theme parks, ghost rides, roller coasters, or any other application where batteries are the primary power source.

This document offers comprehensive guidance on amplifier installation, outlines key features and configuration methods, and details essential operation and maintenance procedures. It applies to both DC Rider amplifier models (8-channel and 16-channel). While this user guide is intended to assist professionals with the design, installation, configuration, operation, and maintenance of projects that utilize DC Rider amplifiers, it does not cover all possible applications and scenarios. For additional information or support, please contact your local dealer or technical support specialist.

DC Rider

The DC Rider is a new multi-channel amplifier incorporating advanced Powersoft technology to address on-board audio requirements. It is available in both eight-channel and sixteen-channel configurations, with a compact form factor designed for easy installation in confined spaces. The eight-channel model provides a total power of 400 W, while the sixteen-channel model delivers up to 800 W. An integrated DSP engine enables advanced audio processing capabilities.

Two front-mounted M12x ports facilitate secure and reliable amplifier control while also supporting AES67 network connectivity. This ensures uninterrupted digital signal flow, made possible by daisy-chain functionality between adjacent vehicles across the entire ride.

The DC Rider amplifier's daisy-chain feature minimizes cabling and reduces the likelihood of disconnections. Furthermore, a comprehensive user interface (UI) allows remote management of the amplifier's DSP, including equalization, filtering, and delay compensation. This streamlined configuration process ensures efficient and flexible operation in diverse on-board audio environments.

Model	Total Rated Power	Channels	Power per channel @40hm (symm.)	Power per channel @40hm (asymm.)	Networking
408	400 W	8	50	180	AES67
8016	800 W	16	50	180	AES67

Features summary

On-board amplifier

The DC Rider Amplifier is a multi-channel platform specifically engineered for ultra-high-end audio applications. It offers a modular, scalable design and includes onboard DSP for advanced processing capabilities.

Designed for harsh environment

DC Rider amplifiers are meticulously crafted to excel in highly demanding conditions, where mechanical stress, vibrations, and heat pose significant challenges. Because these applications call for a robust, reliable audio solution, each amplifier component has been carefully selected to meet stringent performance standards.

Key features include:

- Endurance under extreme vibration and G-forces up to 2.84 G for RMS acceleration
- Optimized for space and weight-sensitive installations
- High reliability to meet continuous operational demands

DC Rider amplifiers successfully fulfill the stringent requirements of these challenging environments.

Daisy chain

Two network ports on the front panel enable multiple DC Rider units to be daisy-chained without an external Ethernet switch. This configuration maintains an all-digital signal path using rugged M12-X Coded connectors, ensuring uninterrupted signal flow across the entire ride.

DC Input

The DC input connector on the amplifier's front panel supports battery and supercapacitor power sources within a nominal range of 12–24 VDC $\pm 10\%$. An external fuse device is required for proper protection.

Power Sharing

Thanks to power sharing, each channel can deliver up to 180 W at 4 Ω , allowing a single output channel to power speakers that require more wattage than the nominal per-channel specification.

ArmoniaPlus Software

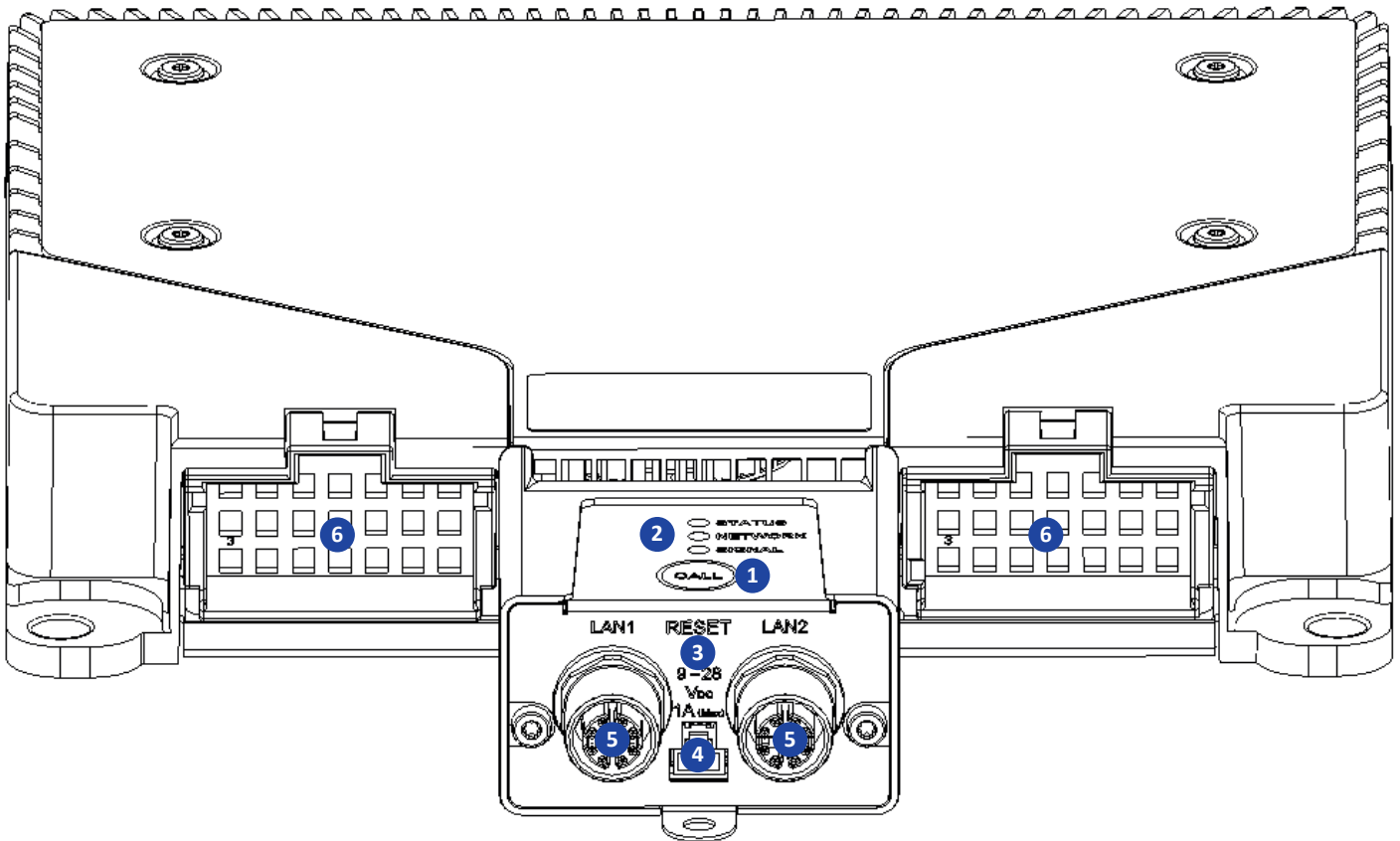
Both DC Rider models feature network connectivity and onboard signal processing. Users can configure amplifier parameters, load speaker presets, and fine-tune complex systems using Powersoft ArmoniaPlus software.

3rd party protocol

A straightforward yet comprehensive communication protocol allows integration with third-party systems for control, monitoring, and automation. More information on the available plugins for the DC Rider can be found in the Appendix of this User Guide.

OVERVIEW

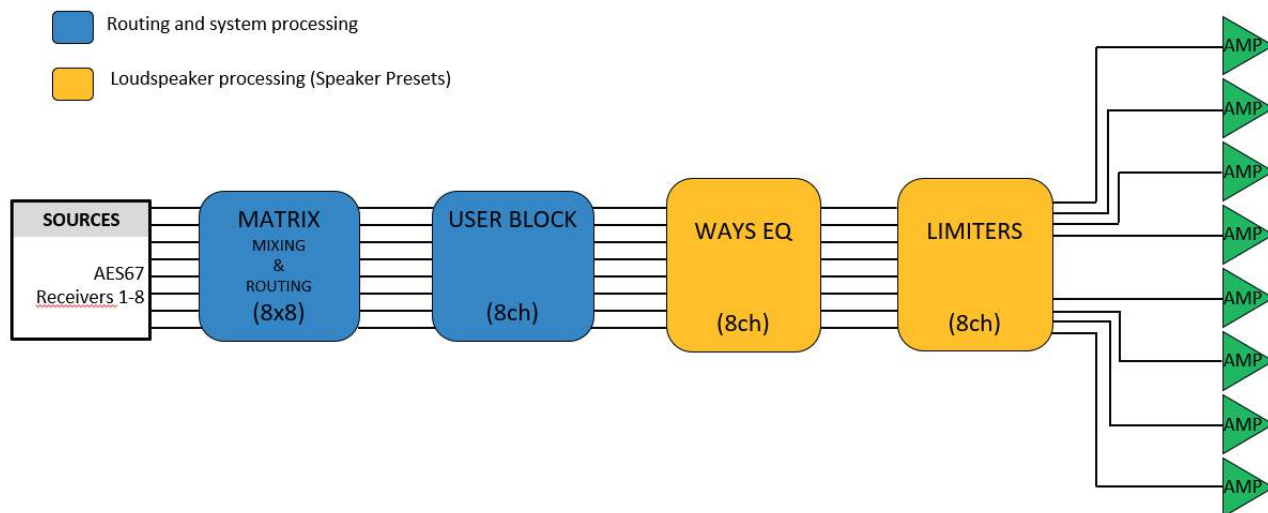
Front panel



1. Call button for pairing with software (ArmoníaPlus or third-party API)
2. RGB LEDs indicators
STATUS, for amplifier's status indication.
NETWORK, for indication of network connectivity status.
SIGNAL, for input signal presence and output limiting indication.
3. Reset button for reset operations (network and factory reset)
4. Digital Power supply connector
5. Ethernet RJ-45 connectors for control and AES67 network connectivity.
6. Output channels and amplifier power supply

Signal flow

Both DC Rider models are built upon the same signal flow and processing architecture, ensuring consistent performance and streamlined configuration across all versions.



Signal flow schematic for DC Rider 8ch

DC Rider 16ch model share the same architecture but feature sixteen channels instead of eight (16x16)

Inputs

The eight-channel and sixteen-channel DC Rider models each include the corresponding number of AES67 input modules (eight or sixteen). These modules feed directly into an internal matrix, providing flexible signal routing.

Matrix

An integrated mixing matrix allows input signals to be mixed and routed to the amplifier's outputs. The matrix supports up to 16x16 for the sixteen-channel model or 8x8 for the eight-channel model. Any input can be routed to any available output.

Default configuration is diagonal: IN1 to OUT1, IN2 to OUT2IN16 to OUT16

User Block

Within the User Block, delays for all AES67 inputs can be set from 0 to 100 ms. Users can also adjust input gain from -60 dB to +15 dB (default value: 0 dB), mute inputs, or apply shading (0 dB to -12 dB) for precise channel control.

Output processing

After passing through the User Block, signals enter the loudspeaker processing section. Here, users can load speaker presets—similar to other Powersoft amplifiers—or manually configure EQ and limiters. This flexibility ensures accurate transducer control and continuous system monitoring.

WAYS EQ

The Ways EQ stage is applied to each amplifier output independently, enabling detailed tuning for single transducers, single-way loudspeakers, or specific transducers in multi-way loudspeakers. Available parameters include:

- Gain: -60 dB to +15 dB
- Mute
- Polarity
- Delay: 0 ms to 10 ms

- 1x High-Pass Filter (HPF)
- 1x Low-Pass Filter (LPF)
- 5x Bi-Quads
- These EQ settings can be saved and recalled as part of speaker presets.

LIMITERS

Limiters are applied after the Ways EQ to protect each transducer from excessive power, over-exursion, or to manage overall dynamic range. Users can configure and monitor all limiter parameters through Powersoft ArmoníaPlus or third-party APIs. The available limiters include:

- RMS Voltage & Peak Voltage
- Clip Voltage

Amplifier outputs

Designed to deliver pristine sound, DC Rider amplifiers offer high dynamic range, a low noise floor and strong voltage/current handling capabilities. Active damping compensation aids in optimizing low-frequency performance. Each output channel supports low-impedance operation (2, 4, or 8 Ω) and can provide up to 180 W at 4 Ω . This high-level performance makes DC Rider an ideal solution for demanding audio installations.

INSTALLATION

Unboxing

The DC Rider platform has been completely tested and inspected before leaving the factory. Carefully inspect the shipping package before opening it, and then immediately inspect your new product. If you find any damage, immediately notify the reseller.

The package contains:

- 1x DC Rider amplifier
- 1x Safety Warning and Regulations sheet
- 1 x Assembly instruction
- 1x QR code linking to the online user guide

Mounting and cooling

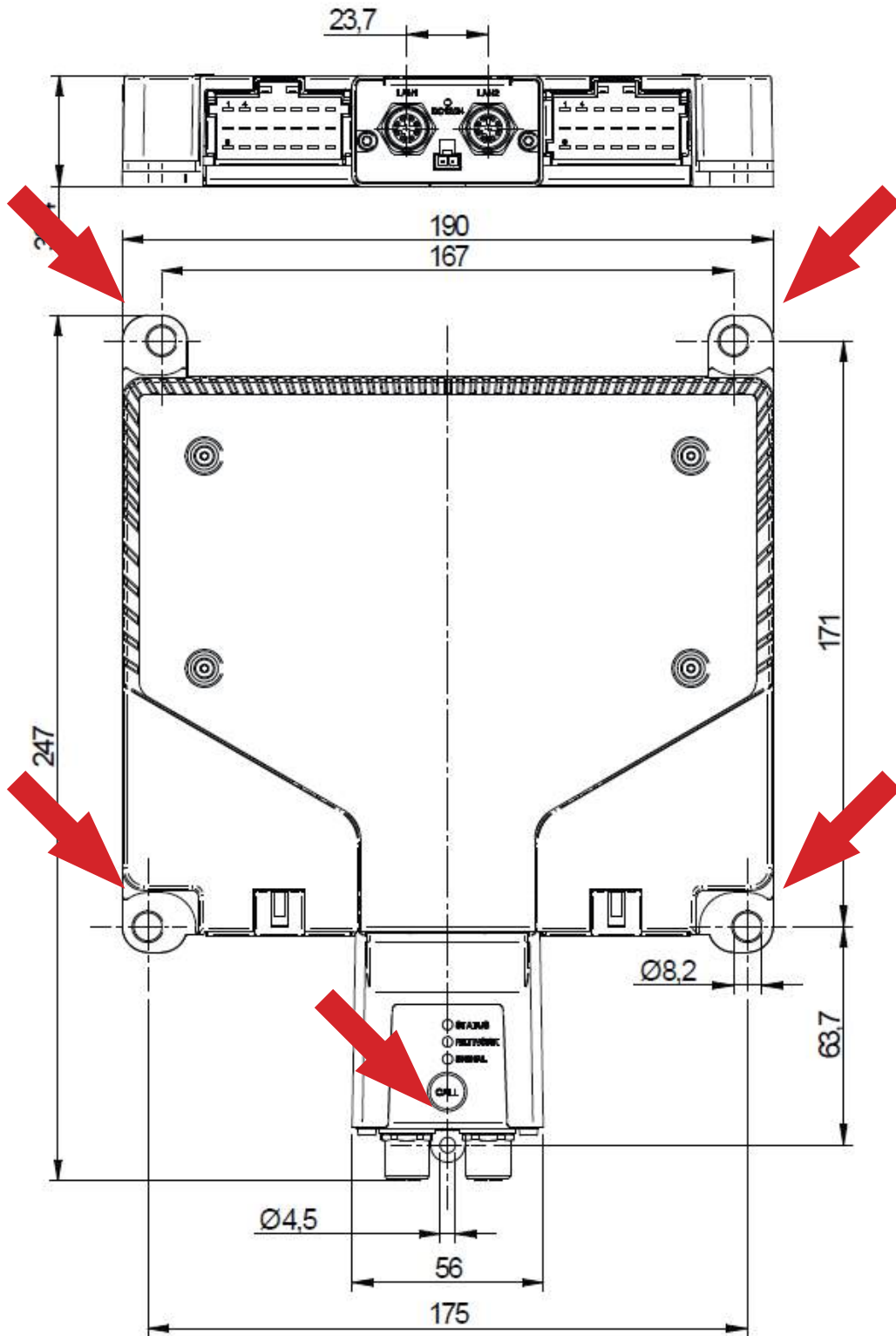
Due to the unique operational environment of theme park attractions—where vehicles experience constant motion, vibrations, and exposure to varying conditions—the amplifier mounting solution must be robust and reliable. For optimal stability and protection, it is advisable to install the amplifier under seats, within the vehicle chassis, behind or integrated into headrests, beneath the floor or vehicle base, or inside side panels. We recommend assessing the vehicle chassis and speaker placement beforehand to ensure proper cable length and secure connections.

DC Rider is engineered for installation on a smooth, level surface. It includes five mounting holes on the chassis for quick and secure installation.

We recommend using flat-head M5 screws to properly fasten the amplifier to the vehicle.

1. Maintain a 30 mm clearance from all air inlet/outlet openings of the heatsink.
2. Maintain a 15 mm clearance from the amplifier casing.
3. Air circulation must be ensured (avoid installation in sealed compartments).
4. Keep away from heat sources.
5. Secure the component to the frame or to sufficiently rigid brackets to prevent resonance of the amplifier components.
6. The compartment housing the amplifier must not be subject to water ingress.
7. Avoid installations with connectors and fan facing upwards.
8. Provide 4 M5 screws for mounting.
9. The metal casing of the amplifier must be connected to GND via screws or a ground cable (in case of painted or non-conductive contact surfaces). Ensure a contact resistance lower than 0.05 ohm.
10. Provide installation in an accessible area for component testing.
11. Do not install the amplifier in a way that the casing is subject to structural stress. For example, avoid fixing two points on one part of the frame and the other two on another part that may move, causing stress on the amplifier casing.
12. Maintain the flatness of the 4 mounting holes within 0.5 mm.
13. 30 A fuses must be present on the two power lines of the two 21-pin connectors.
14. A 2 A fuse must be present on the digital power supply.

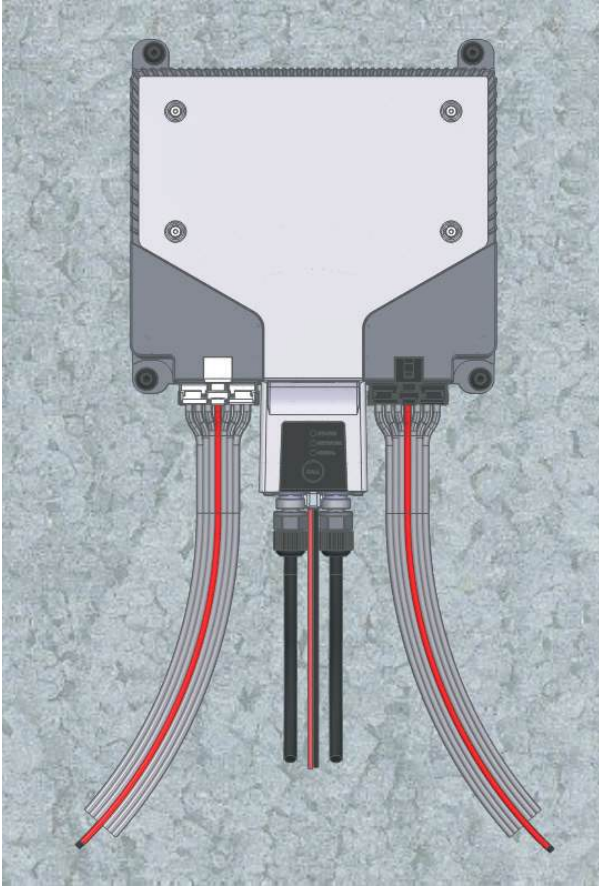
The arrows on the drawing below indicates the positions of the various mounting points.



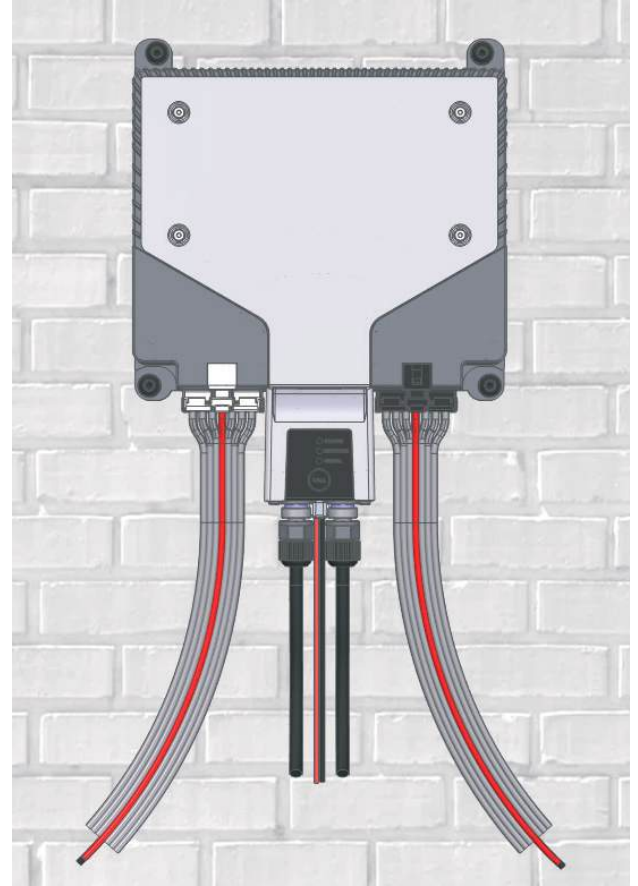
The DC Rider efficient heat management design enables installation in enclosed or constrained spaces: the amplifier cooling is aided by an external intercooler airflow path directly engraved on the amplifier chassis.

IP42 Rating

The IP42 protection rating is guaranteed only for vertical installation, with cables exiting from the bottom, as pictured below.



IP42 rated mounting on sheet metal



IP42 rated mounting on brick wall

Wiring

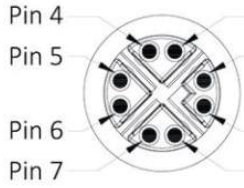
This section provides the pin-out specifications and lists the appropriate mating connectors for all DC Rider models. Each connector has been carefully selected for its vibration resistance and robust construction, both essential qualities for the amplifier's demanding operating environment.

All connectors are industrial-grade to ensure reliable performance.

Input

DC Rider amplifiers utilize network Ethernet connectors for their input connections.

On board connector is M12 X Phoenix Contact - Mating connector is 1417430

PIN	 <p style="text-align: center;">M12X</p>
1	TRX0+
2	TRX0-
3	TRX1+
4	TRX1-
5	TRX2+
6	TRX2-
7	TRX3+
8	TRX3-

Output and Power Module Power Supply

No signal is sent to a channel when no load is connected to it.


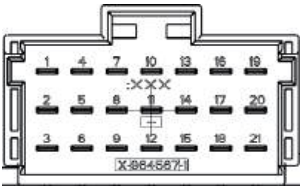
[8ch model]

Power supply and audio outputs #1-8 → mating connector is TE 8-968975-2

[16ch model]

Power supply and audio outputs #1-8 → mating connector is TE 8-968975-2

Power supply and audio outputs #9-16 → mating connector is TE 7-968975-1

PIN	 <p style="text-align: center;">CONNECTOR #1</p>	 <p style="text-align: center;">CONNECTOR #2</p>
1	OUT 7+	OUT 15+
2	OUT 7-	OUT 15-
3	OUT 8-	OUT 16-
4	OUT 6+	OUT 14+
5	OUT 6-	OUT 14-
6	OUT 8+	OUT 16+
7	OUT 5+	OUT 13+
8	OUT 5-	OUT 13-

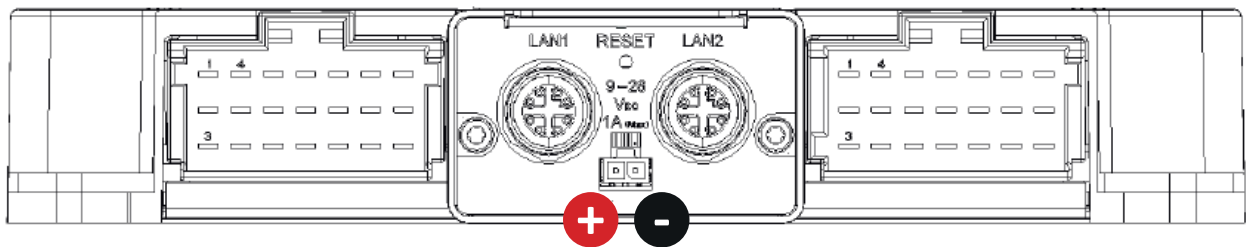
9	RESERVED (DBG TX)	CAN L (opt.)
10	BATT	BATT
11	BATT	BATT
12	GND	GND
13	OUT 3+	OUT 11+
14	OUT 3-	OUT 11-
15	RESERVED (DBG RX)	CAN H (opt.)
16	OUT 4+	OUT 12+
17	OUT 4-	OUT 12-
18	OUT 2+	OUT 10+
19	OUT 1+	OUT 9+
20	OUT 1-	OUT 9-
21	OUT 2-	OUT 10-

Digital Power Supply

DC Rider includes a separate 12-24 VDC +/- 10% power supply connector dedicated to the digital and network module. This design ensures uninterrupted signal flow across the daisy chain, even if the primary power module encounters a failure. The recommended mating connector for this purpose is

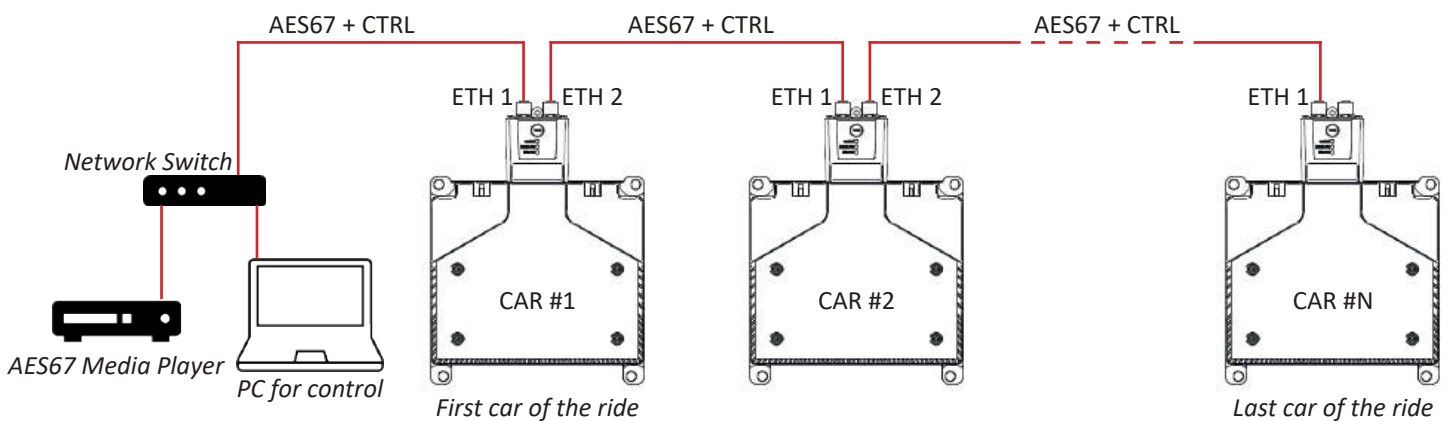
- TE 1445022-2

For additional protection against overcurrent and to prevent damage, it is recommended to use an electronic fuse. The suggested fuse type is Littelfuse 0895030.



Network

DC Rider amplifiers come equipped with two 1GB Ethernet ports featuring M12 X-coded connectors. This design ensures mechanically secure network connections and supports daisy-chain functionality, minimizing the cabling required between adjacent vehicles on the ride. The recommended cabling is M12 X Phoenix Contact 1407472 for Switch to DC Rider and 1080720 for DC Rider to DC Rider.



Once all required connections and wiring are in place, DC Rider is ready for operation.

CONFIGURATION

This section outlines the available configuration methods for DC Rider and details the steps required to properly set up the amplifier.

DC Rider parameters can be configured using ArmoníaPlus software, ensuring that the system operates correctly and efficiently.

Configuring DC Rider with ArmoníaPlus System Design Software

ArmoníaPlus System Design Software is a powerful yet intuitive software for configuring, controlling and monitoring Powersoft products. With ArmoníaPlus, users can set up their audio system quickly and easily, from the installation of the products to the configuration of their parameters. The ArmoníaPlus software can be downloaded from the Powersoft website.

To configure DC Rider amplifiers with ArmoníaPlus System Design software, the amplifier must be connected to the same network as the PC running the software.

Once the network connection is established, the amplifier can be connected to the software via the **Match** procedure in two ways:

1. Open the **Design → Match** screen on ArmoníaPlus and click the **Discovery** button in the top right corner. The amplifier should appear in the list of online devices. To control the amplifier, drag it onto the workspace or click the **Add All** button in the top right corner of the screen.
2. Open the **Design → Add** screen on ArmoníaPlus and click on **Amplifier**, in the top left corner. From here, navigate the devices library by clicking on **Powersoft → DC Rider**. Select the correct amplifier model from the list and click **Add & Close**. Now go to the **Design → Match** screen on ArmoníaPlus and click **Discovery**. The real amplifier will show up in the list of online devices. From here it is possible to:
 - a. Drag and drop the discovered amplifier to its virtual counterpart on the workspace.
 - b. Click on the virtual amplifier icon on the workspace, and then press the CALL button on the front panel of the amplifier. This will complete the match operation automatically, allowing the amplifier to be remotely controlled.

Once the match operation is successful, it will be indicated by three flashing LEDs on the front panel. Through the match operation, ArmoníaPlus will be able to access and control all

device parameters, including, AoIP input patch, delay and output settings. For more information on matching virtual and physical devices, as well as other ArmoníaPlus tutorials, please visit our YouTube channel.

Network setup

DC Rider is equipped with two Ethernet ports, **Eth-1** and **Eth-2**, which operate in **Switched** mode. This configuration supports both control and AES67 over each port, allowing multiple units to be daisy-chained without the need for an external switch. By default, the amplifier's unique IP address for both Control and AES67 is obtained via DHCP addressing mode.

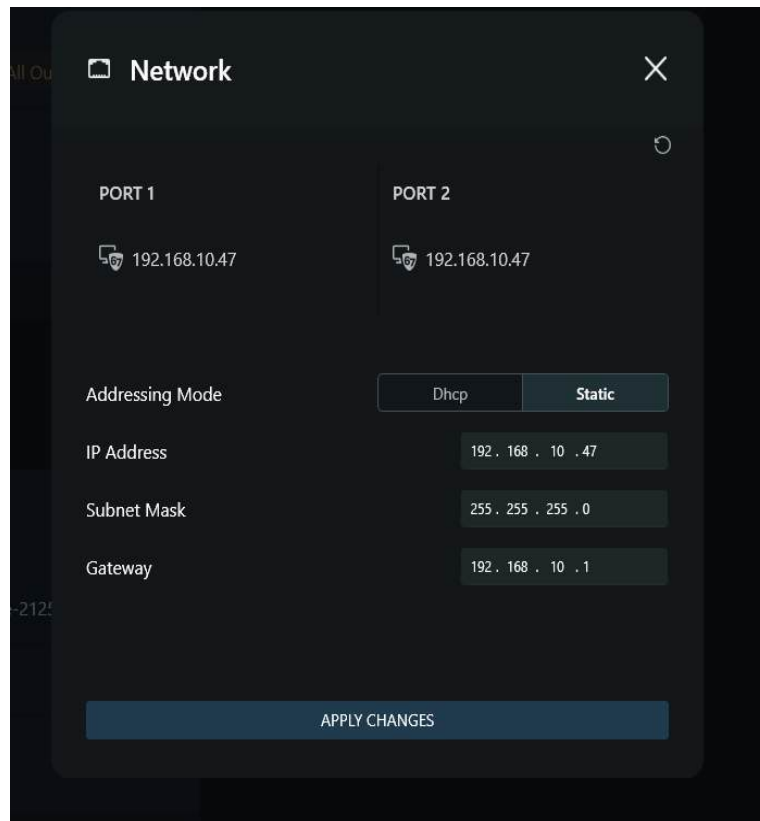
Network setup can be changed via software accessing the device details or from the workspace.

To configure the network settings of DC Rider amplifiers via ArmoníaPlus, access the device details page by selecting the cursor option in **Workspace** view and double click the device. From the left-hand panel, select **Options** and then **Network**.

As per default, DHCP is chosen. In this mode the system automatically obtain an IP address from the DHCP server on the network. When Static is chosen, the user can manually enter the IP address, subnet mask, and gateway.

It is possible to retrieve the network's default configuration via the Network configuration panel in ArmoníaPlus or

by performing a network reset. For details on how to complete a network reset using the push-button, refer to the Appendix of this User Guide.



Network setup panel

AES67

AES67 is a technical standard for network-based audio applications, enabling high-performance Audio-over-IP (AoIP) interoperability among different network systems.

DC Rider amplifiers support AoIP using the AES67 protocol. This allows real-time transcoding for configuration, control, and audio streaming through the network interface. The eight-channel model offers 8 AES67 inputs, while the sixteen-channel model provides 16 AES67 inputs. These channels can be patched to AES67 audio sources on the same network using either ArmoníaPlus software or a web-based configuration page.

For specific instructions on patching AES67 inputs to DC Rider amplifiers in ArmoníaPlus, refer to the Operation section of this manual.

Configuring AES67 via Powersoft ArmoníaPlus software

In the ArmoníaPlus interface, you can access the AES67 settings to:

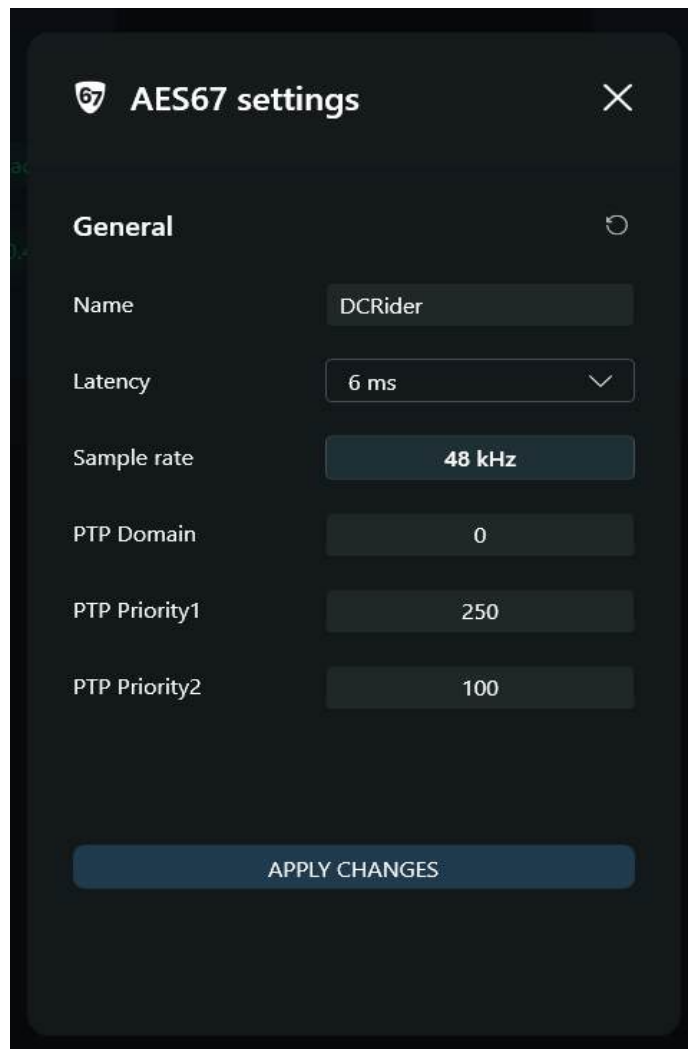
- Edit the AES67 device name

- Set latency of 2, 4, 5, 6 or 10 ms

- Configure PTP domain and priorities

The sample rate is fixed at 48 kHz.

Choose a higher latency value if your network bandwidth is limited or you need to ensure greater stability. This helps avoid audio dropouts and clock synchronization issues.

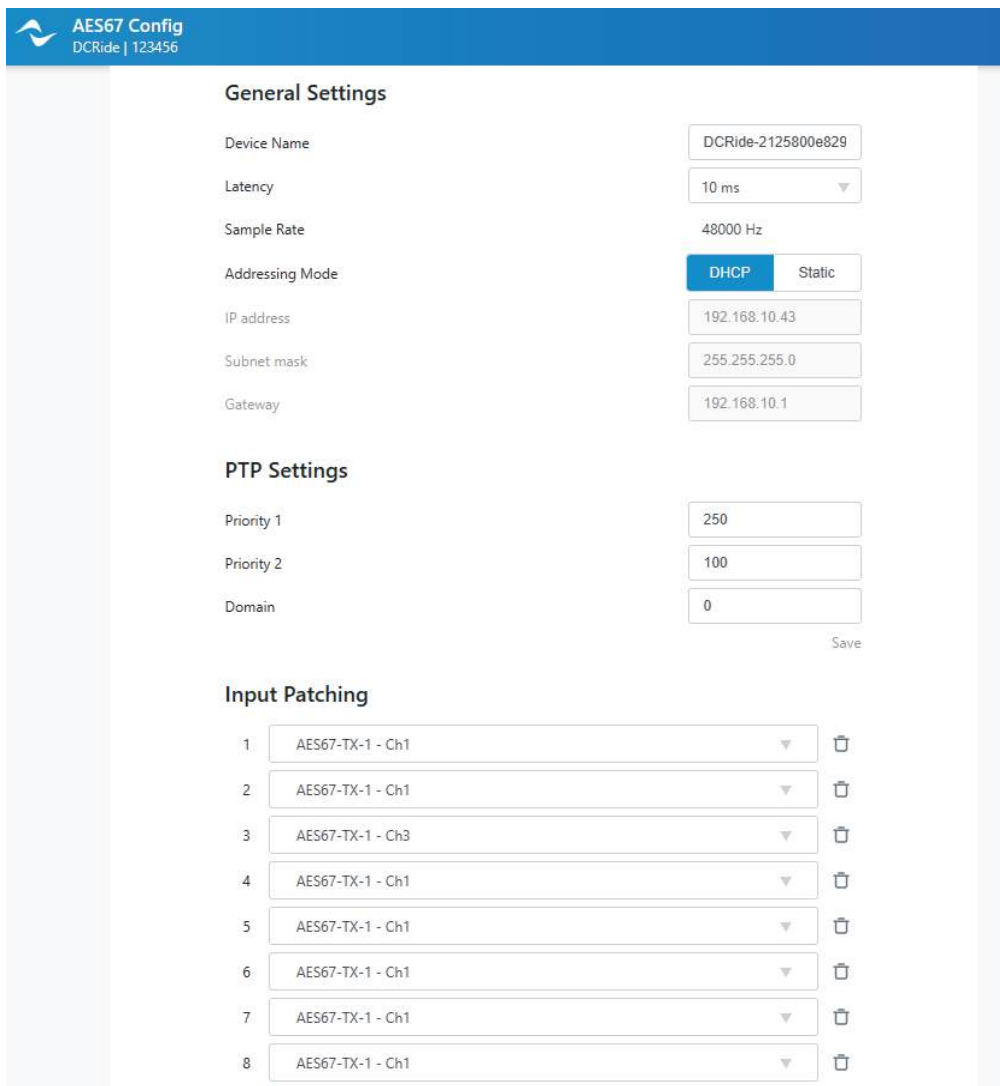


AES67 settings panel on ArmoníaPlus

Configuring Network and AES67 via web page

Network and AES67 settings can also be managed through a web interface, which provides the same configuration options found in ArmoníaPlus. These include IP addressing, AES67 device name, latency, and PTP settings. In addition, AES67 input patching is available from this window.

To access the amplifier's web interface, enter the AoIP port's unique IP address into your web browser.



Network and AES67 settings panel on web interface

Loudspeakers Preset

DC Rider amplifiers come with a library of loudspeaker presets that can be accessed through ArmoníaPlus System Design software. These presets are designed to provide optimized performance for a range of loudspeaker models, making it easier for users to quickly set up the system. The presets parameters typically include loudspeaker type, EQ, Crossover, and protection Limiters.

In addition to the loudspeaker presets distributed via ArmoníaPlus software, users can also create their own custom presets. This can be done by accessing the amplifier's internal DSP properties in ArmoníaPlus and then selecting the **Speaker Configuration** icon. For more information on how to load and create loudspeaker presets, please visit our website or Youtube channel.

Device Monitoring and Control

Device monitoring and Control by the user are expected to take place via multiple platforms in order to provide comprehensive device status information and control features for standard users, both locally and remotely.

As with other Powersoft products, the DC Rider can be controlled both via ArmoníaPlus and via third-party software.

APIs and Third-Party Plugins

DC Rider amplifiers provide APIs and third-party plugins for developers willing to fully control all aspects of the device. The APIs provide an interface for comprehensive device status information and control features for standard users, as is done in ArmoníaPlus.

The available APIs for DC Rider amplifiers are:

- Advanced protocol
- SNMP protocol

The advanced protocol is a comprehensive 3rd party protocol PBusX, an UDP based proprietary protocol of Powersoft, which allows users to control and monitor nearly all aspects of the amplifier, including DSP settings, AoIP input patch, and more. The DC Rider amplifiers are also compatible with SNMP protocol, allowing for monitoring status of the amplifier from a remote location. It is possible to monitor sleep, over temperature, power supply alarm and status, hardware protection, hardware fault and any fault on AoIP streaming of the amplifier.

OPERATION

DC Rider does not include a dedicated power on/off switch. To power the amplifier, connect both the power module and digital module inputs to a 24 VDC or 12 VDC source such as a battery or supercapacitor.

Front panel

Only two operations are available directly from the amplifier's front panel without software control: reset and pairing.

RESET BUTTON

Pressing the reset button restores the amplifier to its factory-default settings or reverts the network configuration to the default mode (DHCP).

CALL BUTTON

A CALL button is also located on the front panel. Pressing this button triggers the discovery process within ArmoníaPlus or a third-party API. During pairing, the amplifier's three front panel LEDs will blink for an extended period, confirming the operation.

INDICATOR LEDs

Three monochromatic LEDs on the front panel provide visual feedback regarding the amplifier's status, network connectivity, and signal presence. Refer to the Appendix for a detailed description of each LED's behavior.

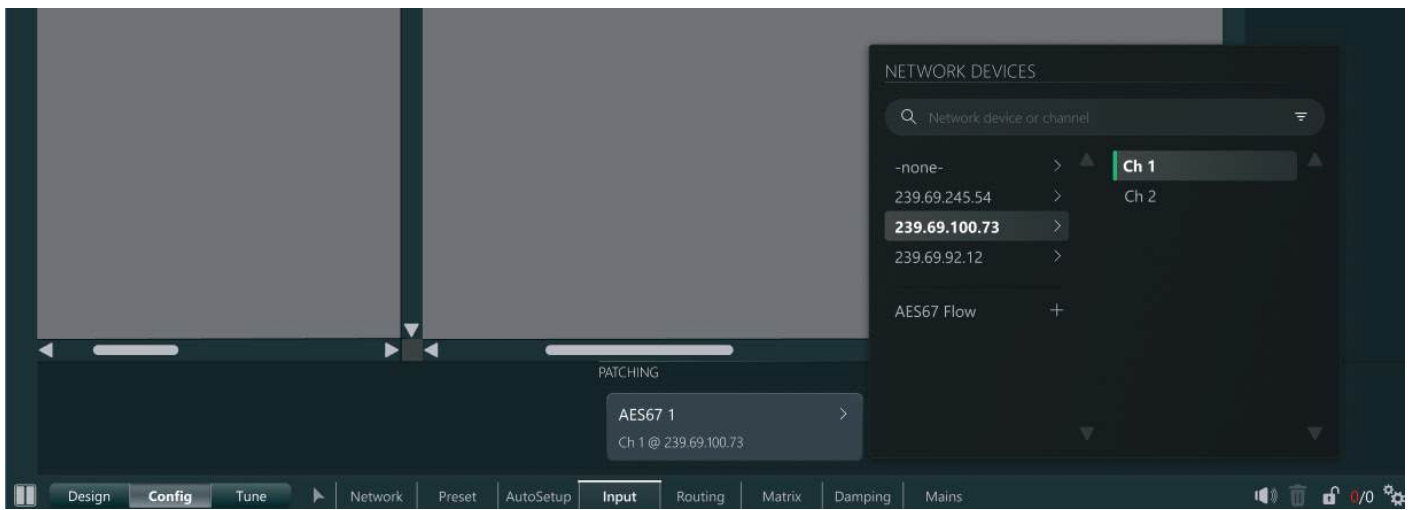
Software Control

DC Rider amplifier channels can be configured via software. Simply connect your device to the same network of your PC and open ArmoníaPlus.

Once the software is opened, it is possible to patch amplifier inputs.

Note: Be sure to synchronize ArmoníaPlus with your amplifiers before starting the patching operation. Patching operation cannot be performed on offline devices.

From the **Workspace**, open the **Config** tab and select the **Input** function. From here it is possible to assign a connected source to each amplifier input channel. Select a channel on the virtual DC Rider and patch the AES67 source. To patch a single source to multiple input channels simultaneously, select multiple channels on the virtual DC Rider and patch them in one step.



Input patching panel on ArmoniaPlus

After completing the input patching process, DC Rider can begin operating with its default configuration (diagonal matrix, no delay, and no DSP). To modify the matrix, input, or output settings, access the amplifier's internal settings:

1. In **Workspace** view, select the **Cursor** tool.
2. Double-click the amplifier to open its **Device Details** page.
3. In the left-hand panel, select the appropriate section to adjust parameters as desired.

At this point, DC Rider is fully ready for operation.

MAINTENANCE

This section describes how to perform maintenance tasks and restore the device to factory settings. If you encounter a configuration issue and wish to revert the amplifier to its original factory settings, press and hold the Reset button for 10 seconds. This action will clear any custom configurations and restore default parameters.

Updating firmware

Firmware updates for DC Rider amplifiers can be performed through ArmoníaPlus software. In the Match page of ArmoníaPlus, outdated devices appear in red. Open the **System List** view and select the outdated amplifiers. Then, click on **Update** to initiate the firmware upgrade process.

Once the update completes, the device will be running the latest firmware version.

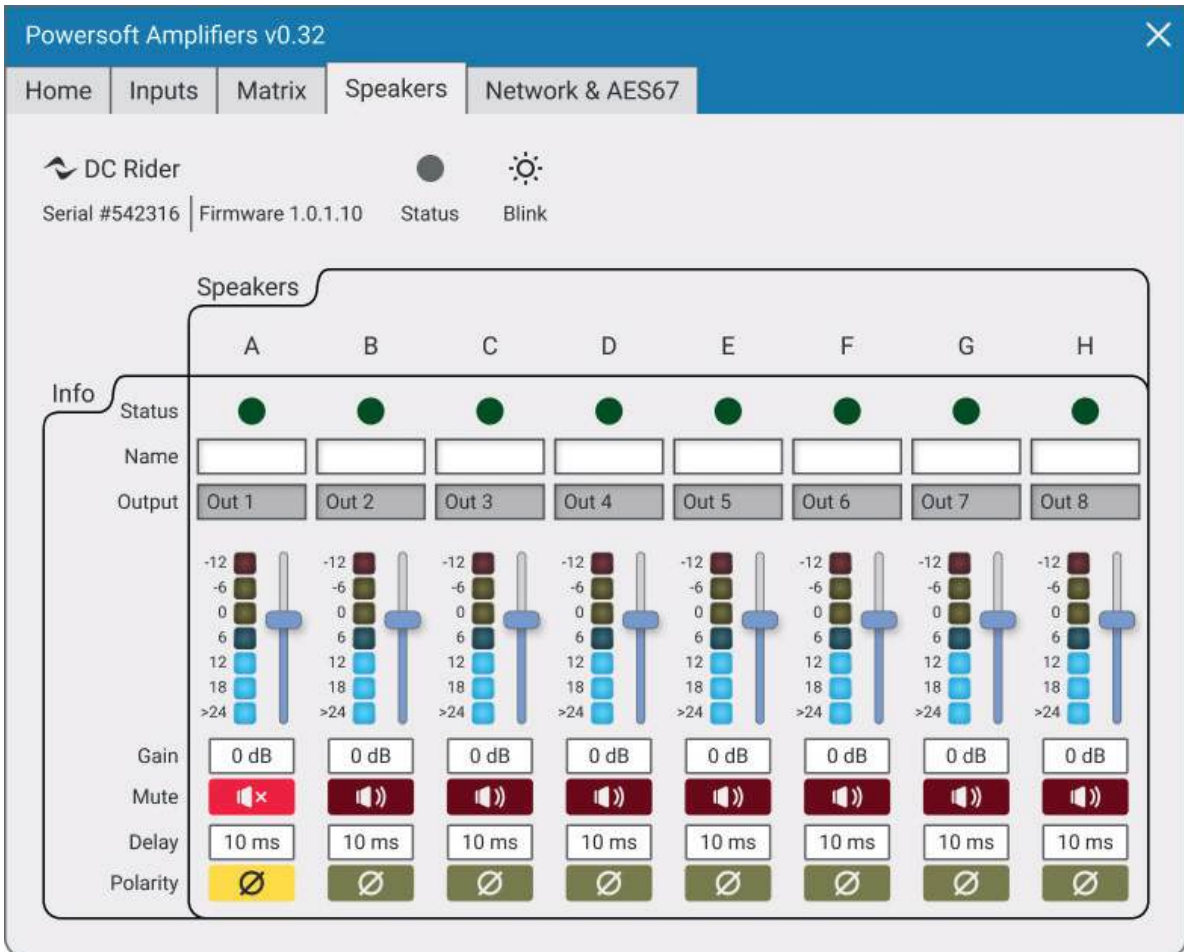
APPENDIX

Third-Party Plugins (Q-SYS)

Third-party plugins are available for DC Rider amplifiers to facilitate integration with external control and processing systems.

Q-SYS

DC Rider amplifiers can be incorporated into a Q-SYS system for streamlined remote control and monitoring. The Q-SYS plugin is developed and maintained by Powersoft, ensuring seamless compatibility and reliable performance.



Q-SYS plugin interface for DC Rider amplifiers, Speakers section of the 8ch model

UI - LEDs behavior and operation

The table below summarizes the behavior of the amplifier's LEDs.

N.B. Monochromatic GREEN LEDs

	STATUS	NETWORK	SIGNAL
AMPLIFIER ON	Steady	-	-
HARDWARE FAULT/ LOAD ALARM	Short blinking	-	-
TEMPERATURE FAULT	Short blinking	-	-
INPUT SIGNAL PRESENCE	-	-	Steady
LIMITING IN ONE OR MORE CHANNELS	-	-	Short blinking
ETHERNET UP & OPERATIONAL	-	Steady	-
CONNECTED TO REMOTE CONTROL	-	Steady	-
CALL OPERATIONS	Long blinking	Long blinking	Long blinking
RESET	[SEE BELOW]		

The recessed button on the front panel is used for reset procedures.

When pressed briefly, all LEDs turn off momentarily.

NETWORK RESET

Press and hold the button for 3 seconds to reset the network settings to default values (dynamic addressing + switched mode). After 3 seconds, the Network LED begins a short blink sequence. If the button is released within the next 3 seconds, the LEDs start a long blink, indicating that the network reset is being performed. If the button is held longer than this additional 3-second, the LEDs turn off and no network reset is executed.

FACTORY RESET

After 10 s of holding, all LEDs turn on when pushbutton is released in less than further 3 s, device resets to factory default. Otherwise, LEDs turn off and no operation is carried out.

Press and hold the button for 10 seconds to initiate the factory reset process. At 10 seconds, all LEDs turn on. If the button is released within the next 3 seconds, the amplifier resets to factory-default settings. If the button is held beyond this additional 3-second, the LEDs turn off and no reset occurs.

Important: Performing a factory reset erases all custom configuration settings. The amplifier will need to be reconfigured via software afterward to ensure proper system operation.



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