

Wavtech link700.4plus 700W RMS 4 Channel Amplifier Owner's **Manual**

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Wavtech link700.4plus 700W RMS 4 Channel Amplifier



WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

CAUTION

This symbol means important instructions. Failure to heed them can result in injury or property damages

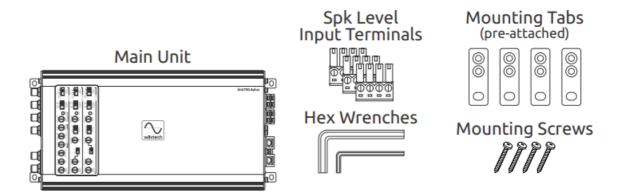
- DO NOT DRIVE WHILE DISTRACTED. Any function that requires your prolonged attention should not be performed while driving. Always stop the vehicle in a safe location before performing any such function. Failure to do so may result in an accident.
- KEEP THE VOLUME AT MODERATE LEVELS WHILE DRIVING. Excess volume levels can obscure sounds
 such as emergency vehicle sirens or road warning signals and may result in an accident. Continuous exposure
 to high sound pressure levels may cause permanent hearing loss. Use common sense and practice safe
 sound.
- FOR USE WITH 12V NEGATIVE GROUND VEHICLE APPLICATIONS ONLY. Using this product other than in its designed application may result in fire, injury or product damage.
- MAKE THE CORRECT WIRING CONNECTIONS AND USE PROPER FUSE PROTECTION. Failure to connect wiring correctly with appropriate gauge and fuse protection may result in fire, injury or product damage. When replacing fuse(s), never exceed the specified rating. Ensure proper protection of all system power wiring and install an external fuse (not included) with specified rating for each amplifier connected with the +12V lead at the battery terminal.
- DISCONNECT THE NEGATIVE BATTERY TERMINAL BEFORE INSTALLATION. Failure to do so may result in fire, injury or damage to the unit.
- D O NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS. Arrange wiring and cables to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as steering wheel, brake pedals, etc. can be extremely hazardous.
- DO NOT DAMAGE VEHICLE SYSTEMS OR WIRING WHEN DRILLING HOLES. When drilling holes in the chassis for installation, take precautions so as not to contact, puncture or obstruct brake lines, fuel tanks, electrical wiring, etc. Failure to take such precautions may result in fire or an accident.
- DO NOT UTILIZE OR CONNECT TO ANY PART OF VEHICLE SAFETY SYSTEMS. Bolts, nuts or wires used in the brake, airbag, steering or any other safety-related systems or fuel tanks should NEVER be used for mounting, power or ground connections. Using such parts may disable control of the vehicle or result in fire.

CAUTION

 STOP USE IMMEDIATELY IF A PROBLEM OCCURS. Failure to do so may result in personal injury or damage to the product. Return it to your authorized Wavtech dealer.

- HAVE AN EXPERT DO THE WIRING AND INSTALLATION. This unit requires special technical skills and
 experience for wiring and installation. To ensure safety and proper function, always contact the authorized
 dealer where you purchased the product to have it done professionally.
- INSTALL THE UNIT SECURELY WITH SPECIFIED PARTS. Be sure to use only the included parts and specified installation accessories (not included). Use of other than designated parts may damage this unit. Install the unit securely so that it will not come loose during a collision or sudden jolt.
- ROUTE WIRING AWAY FROM SHARP EDGES AND MOVING PARTS. Arrange cables and wiring away from sharp or pointed edges and avoid moving parts such as seat hinges or rails to prevent pinching or wear. Use loom protection where appropriate and always use a grommet for any wiring routed through metal.
- NEVER RUN SYSTEM WIRING OUTSIDE OR UNDERNEATH THE VEHICLE. All wiring must be routed, secured, and protected inside the vehicle. Failure to do so may result in fire, injury or property damage.
- INSTALL THE UNIT IN A DRY AND VENTILATED LOCATION. Avoid mounting locations where the unit will likely be exposed to high moisture or heat without adequate ventilation. Moisture penetration or heat buildup may result in product failure. Always make sure the amplifier chassis temperature is safe before touching it.
- REDUCE GAIN AND SOURCE VOLUME TO MINIMUM LEVELS FOR INITIAL SYSTEM TUNING. Ensure
 amplifier power is off before connecting signal cables and follow proper system gain setting procedures. Failure
 to do so may result in damage to the amplifier and/or connected speakers.

Package Contents



Accessories Required for Installation (not included):

- RCA Cables or Signal Wire Power Supply & Speaker Wire
- In-line Fuse Holder w/80A Fuse Battery Ring Terminal
- · Chassis Ground Terminal Wire Crimp Connectors
- Grommets & Loom

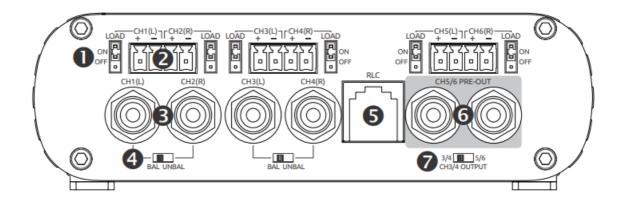
Introduction

Welcome to Wāvtech, an exceptional mobile audio product for audiophiles. Our products are engineered from the ground up to provide a truly remarkable listening experience with superior performance, sound quality and reliability. Built for the professional installer, our innovative features enable maximum application coverage with ultimate system flexibility. Whether retaining the factory receiver or utilizing an aftermarket source, our solutions are simply the best available for unlimited sound system upgrades.

Features

- 4/3/2-Channel Bridgeable
- · Differential Balanced Inputs
- · Dual Input Range with Ideal Gain Structure
- 6-Channel Summing Processor
- +/-6dB Output Level Trim for After Sum or Copy
- -12dB/Oct. HP/LP/BP Filters (CH1/2 & CH3/4) TM
- bassFREQ Processor with Parametric EQ, -24dB/oct. Subsonic and LP Filters (pre-out or CH3/4)
- Line Driver RCA Pre-Out with up to 10Vrms Output
- Remote Level Control Ready (pre-out or CH3/4)
- Auto Turn-On via DC-Offset and Audio Detect
- Start/Stop Vehicle Compatible
- Adaptive Loading for OEM Load Detect Systems
- Active Thermal Rollback Power Management
- Panel Mount RCA Inputs with Bal/Unbal Select
- Locking Detachable Spk Level Input Terminals
- 4AWG Insert Power/Ground Terminals
- 12AWG Insert Speaker Output Terminals
- Compact Chassis w/Detachable Mounting Tabs

Input Panel Connections & Settings

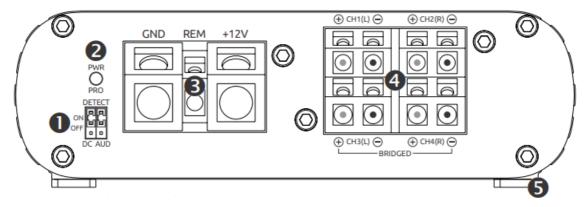


- 1. **Load Jumpers:** Each speaker level input channel has built-in adaptive loading to satisfy most OEM load detect systems. These internal loading circuits can be bypassed (OFF) for channels where no loading is required, such as when a speaker is still directly connected to the source.
- 2. **Speaker Level Inputs**: For up to six channels of speaker level input connections to the source. When set to the 20V range (default), the input signal from 1-20Vrms will produce full power output from max to min gain, while the 40V range will take 2-40Vrms.
- 3. **RCA Inputs**: For up to four channels of RCA line-level input connections to the source. When set to the 5V range (default), the input signal from 0.2-5Vrms will produce full power output from max to min gain, while the 10V range will take 0.4-10Vrms.
- 4. **RCA Input Bal/Unbal Switches:** These switches select the associated RCA input's configuration between balanced (default) and unbalanced. Unbalanced connects the RCA shield to ground reference, which may be useful in eliminating noise under certain source or system conditions.
- 5. **Remote Level Control Jack**: This RJ45 jack is for connecting the optional links to the main unit for remote adjustment of CH5/6 output signal level from 0dB (max) to -30dB (min), whether routed to the RCA pre-out or

- CH3/4's powered output.
- 6. **RCA Pre-out**: This CH5/6 line driver pre-out provides up to 10Vrms output signal for connecting TM external amplifiers. Its mono output signal comes from CH5/6's input stage and bassFREQ processor, so for 2ch or 4ch sources, set CH5/6's INPUT CH to either copy 1/2 or sum 1+3/2+4.
- 7. **CH3/4 Output Select**: This switch selects which signal feeds CH3/4's powered outputs. When 3/4 is selected, CH3/4's settings and adjustments will affect CH3/4's output. When set to 5/6, CH3/4's TM signal is replaced by CH5/6's signal and bassFREQ processor settings, before Level Trim.

Power Supply / Output Panel Connections & Settings

- Auto Turn-On Detect Jumpers: By default, the amplifier is set to detect both DC-offset and audio signals to turn itself on/off automatically. These jumpers allow either turn-on mode to be defeated independently or to bypass both modes when a switched +12V trigger is available and connected to the remote turn-on (REM) terminal.
- 2. Power/Protect Indicator: This LED will illuminate green when the amplifier is powered on and operating normally. If a shutdown occurs due to a detected fault, the LED will turn red. Once the fault has been corrected or the condition has cleared, the amplifier will automatically recover, indicated by the LED changing back to green.



Power Supply Terminal

- **Ground (GND):** The ground terminal must be connected to a metal part of the vehicle with the ground plane back to the main battery ground attachment point (a.k.a. chassis ground). This wire should be as short as possible, but no longer than 2ft (60cm), with minimum gauge of 4AWG. The ground wire should be terminated with a ground-specific or ring terminal and securely bolted to the vehicle with star or lock washer and nut to prevent from coming loose. The chassis ground connection point should be scuffed to the bare metal.
- Remote Turn-on (REM): If the source unit has a remote output wire (+12V switched output), connect it to the REM terminal. If a remote lead is unavailable, the amplifier will automatically turn-on by detecting DC-offset or audio signal from the source. While auto turn-on works well in most applications, there may be some cases where a +12V trigger is preferable or necessary. Both detect functions are enabled by default, but can be individually defeated via the two jumpers located next to the power supply terminal.
- Power (+12V): The constant +12V power connection must be made at the vehicle's main battery, securely connected with a ring terminal and protected with an in-line fuse within 18in (45cm) from the positive battery terminal. The link700.4plus requires an 80A external in-line fuse (not included) and a minimum power wire gauge of 4AWG. Do not install the fuse until all other system connections have been made.

Speaker Output Terminal

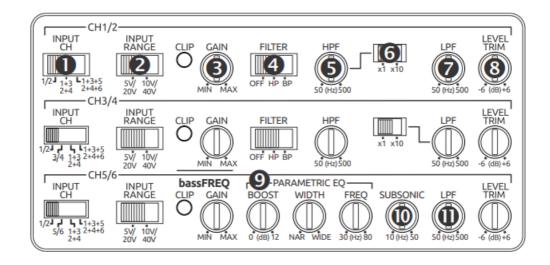
Each (+) and (-) terminal pair per channel is for connecting the amplifier's output to speaker(s) or subwoofer(s). Make sure to observe the correct polarity and total impedance per channel. The minimum nominal impedance is 2Ω per channel, or 4Ω for bridged connections with CH1/2 or CH3/4.

Mounting Tabs

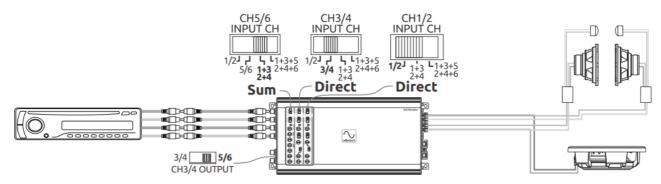
These mounting tabs are pre-attached and should be used to properly secure the amplifier with the included mounting screws to a solid mounting surface that is directly attached to the metal structure of the vehicle cabin. These tabs are removable if the unit can be safely secured by another method.

Top Panel Controls

Input Channel: These switches are for selecting which input channels feed each channel pair's pre-amp and output stages. CH1/2 can be set to direct (1/2), 2-way sum (1+3/2+4) or 3-way sum (1+3+5/2+4+6). CH3/4 and CH5/6 can be set to copy (1/2), direct, 2-way sum, or 3-way sum.



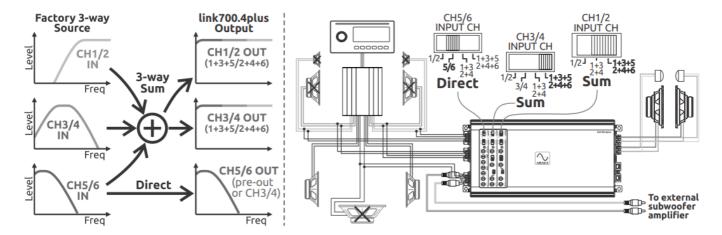
- For 2-channel full-range sources, connect the source to CH1/2's RCA or speaker level inputs and set CH3/4 and CH5/6's INPUT CH to copy (1/2). Note that their gains will then be controlled by CH1/2, so if a difference in relative output volume is desired, either use their Level Trim adjustments or y-adapters/jumper wires and set their inputs to direct for independent gain.
- For 4-channel full-range sources, set CH1/2 to direct (1/2) and CH3/4 to direct (3/4). To utilize TM CH5/6's bassFREQ processor either for CH5/6's pre-out or CH3/4's powered output, set CH5/6 to sum (1+3/2+4). Example: An aftermarket radio with at least 2-preouts (4ch) is connected to the link700.4plus via RCA interconnects for driving a front + subwoofer system (3ch mode). CH1/2 and CH3/4 inputs are set to direct, while CH5/6 is set to sum 1+3/2+4. CH5/6's signal is then sent to CH3/4's powered outputs by setting the CH3/4 OUTPUT select switch (located under the RCA pre-outs) to 5/6.



For summing 2-way or 3-way factory signals, several options are available that depend upon the aftermarket

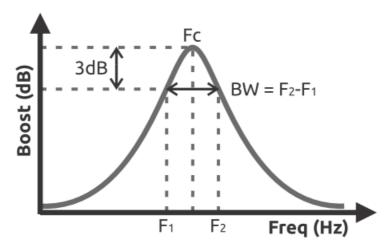
speaker system's configuration.

Example: For a 2-way active front + sub amplifier system from a 3-way factory source, CH1/2 and CH3/4 inputs are set to 3-way sum (1+3+5/2+4+6) to create a full-range signal for the front component speakers, while CH5/6 could either be set to direct (5/6) or sum. CH5/6's mono output is then sent to an external amplifier via its RCA preout.



- 1. **Input Sensitivity Range**: Two input sensitivity ranges are provided for each channel pair to optimize source volume range while minimizing the gain required to achieve full power output for best signal-to-noise. Choose the input range that will accommodate the source's maximum output signal voltage without excessive clipping, 5V or 10V for low-level (RCA) inputs, and 20V or 40V for speaker-level inputs.
- 2. **Gain with Clip LED**: Each channel pair has a variable gain adjustment with a corresponding clipping indicator, where the LED will dimly illuminate just before the onset of clipping and become fully bright when the amplifier has reached full power output at approximately 1% THD+N. When summing, these gain adjustments should be used for matching relative levels so that the combined signals sum close to flat or to the desired frequency response. See "below for use of Level Trim.
- 3. Filter Mode: This switch selects the filter mode as a high-pass (HP), band-pass (BP) or full-range (OFF). When BP is selected, both HPF and LPF frequency adjustments are enabled. For smaller full range speakers or tweeters, select HP mode to filter out lower frequencies below the chosen cutoff point. For midbass or midrange speakers, select BP mode to optimize their effective bandwidth and integration with other speakers by filtering out higher frequencies above the chosen LPF cutoff and lower frequencies below the chosen HPF cut-off.
- 4. **HP Filter Frequency**: When HP or BP filter mode is activated, the HP filter adjustments set the high-pass filter's cut-off frequency (F3) with a slope of -12dB/oct. Use this adjustment to optimize speaker frequency response to what they can effectively reproduce and to minimize the chance of being over-driven by lower frequencies at maximum volume.
- 5. **x1/x10 Multiplier**: This switch multiplies the frequency adjustment range by a factor of x1 or x10. In the x1 setting, the frequency range is 50Hz to 500Hz, while in the x10 setting the range becomes 500Hz-5kHz. Typical use of the x10 range is for a 2-way crossover between midrange and tweeter. 'LP Filter Frequency: When BP filter mode is activated, this variable adjustment sets the low-pass filter's cut-off frequency (F3) with a slope of 12dB/oct. Use this adjustment to roll off unwanted higher frequencies, such as above the operating range of a midbass or midrange speaker.
- 6. **Level Trim**: When using copy (1/2) for 2ch input or summing, after setting gain and crossovers for appropriate frequency response, these adjustments allow the power output of each channel pair to be increased or decreased independently by up to +/-6dB for final volume balance between them while preserving the summing

ratio established by the gains. See the system example above in OE, where the gains are used to sum prefiltered factory signals into a full-range signal, and the level trims then are used to set final relative output levels. Note that increasing the



level trim of channels already at maximum power output will require re-adjusting gains lower to avoid clipping.

- 7. **Parametric EQ:** This section provides full adjustment over all parameters of a single EQ band, including boost, width, and frequency. Unlike traditional bass boost, a parametric EQ provides the tuning flexibility required for differences between vehicles, subwoofers, and enclosures.
 - **Boost:** This adjustment sets the amount of boost at the center frequency (Fc) of the parametric EQ band from 0dB up to +12 dB. Note that adding boost may cause the output to clip or over-drive the subwoofer, so it may be necessary to re-adjust the gain, subsonic, and low-pass filters.
 - Width: Also known as Q, width sets the bandwidth (BW) of boost for the parametric EQ band. A wide setting will include more adjacent frequencies for a broad boost, while a narrow setting will only boost frequencies close to the chosen center frequency (Fc). The range of Q adjustment is 1.5 (wide) to 5 (narrow). To calculate the bandwidth between the -3dB points that are boosted by the EQ band, use the formula BW = Fc/Q.
 - Frequency: This adjustment allows the center frequency (Fc) of the parametric EQ band to be set between 30Hz and 80Hz. Note that boosted frequencies that overlap with the subsonic and lowpass filters will attenuate from the chosen cut-off frequencies.
- 8. Subsonic Filter Frequency: This adjustment sets the -3dB cut-off point (F3) for CH5/6 (pre-out or CH3/4 output) below which all frequencies are filtered out at -24dB/oct. Very low frequencies can waste amplifier power and damage subwoofers. This adjustment is especially important for ported enclosures to prevent over-excursion below the tuning frequency.
- 9. LP Filter Frequency: This adjustment sets the -3dB cut-off point (F3) of the low-pass filter for CH5/6 (pre-out or CH3/4 output) above which all frequencies are filtered out at -24dB/oct. Unwanted higher frequencies allowed to play through subwoofers can cause boomy, buzzy bass that is easy to localize. With a steep -24dB per octave slope, the cut-off frequency can be set higher, allowing more punch with less distortion and optimized integration with full-range speakers to achieve up-front bass.

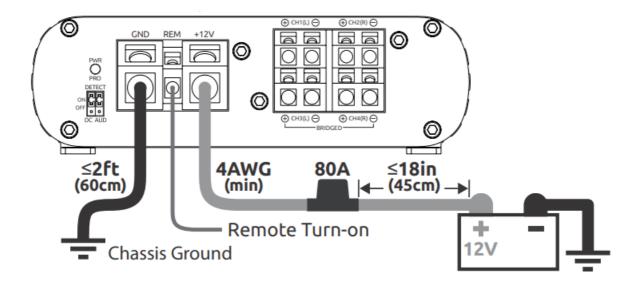
Note: If the subsonic and low-pass filter cut-off points are set too close together, only a narrow frequency range will pass through and may result in significantly reduced bass output.

System Wiring

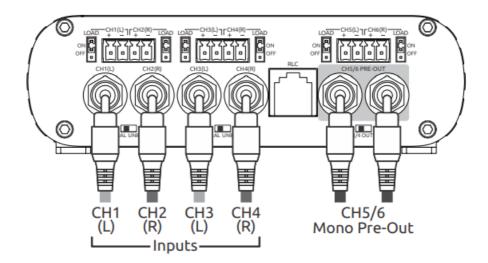
It is important to read this manual thoroughly before starting your installation and always plan accordingly. Before installing, disconnect the negative (ground) wire from the vehicle's battery to avoid damage to the vehicle or

yourself. Following all guidelines will ensure years of enjoyment with your Wāvtech amplifier.

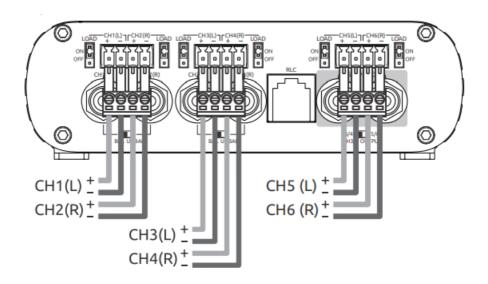
Power Supply Terminal Wiring



RCA Input/Output Wiring



Speaker Level Input Wiring

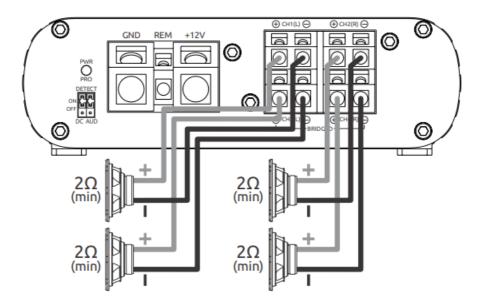


Notes

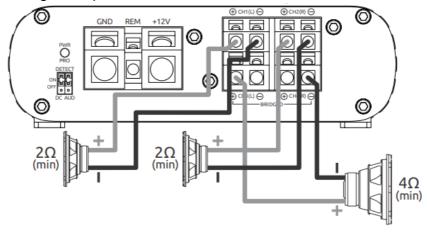
- When using a 2-channel source, connect it to CH1/2 inputs and set CH3/4 and CH5/6's INPUT CH switch to copy (1/2). Use the Level Trim adjustments to adjust relative output volume as needed. Alternatively each channel can be set to direct input for independent gains, but will require use of RCA y-adapters or jumper wires. Note that there is no RCA input for CH5/6, so if using an RCA source, set CH5/6's INPUT CH switch either copy 1/2 or sum 1+3/2+4.
- To preserve left/right stereo when bridging CH1/2 and CH3/4 for 2ch output mode, connect the source's left channel to both CH1 and CH2 inputs and the right channel to both CH3 and CH4 inputs using RCA y-adapters or jumper wires. Connect the bridged output from CH1/2 to the left speaker and CH3/4 to the right speaker.

Speaker Output Terminal Wiring

4-Channels



3-Channels (Stereo + Bridged Sub)



Note: After checking all wiring and connections, make all initial settings and adjustments before turning on the amplifier to avoid damaging the connected speakers. Gains should always start at minimum with the appropriate input range selected for your aftermarket or OEM source's maximum output voltage. For smaller speakers, always activate the HP filter and set the cut-off frequency to protect them from being over-driven.

Specifications

Power Output	RMS, 14.4.V, <1%THD+N	4Ω		100W x 4
		2Ω		175W x 4
		4Ω BTL		350W x 2
S/N Ratio	1W, A-wtd			-80dBA
Frequency Response	Max Flat (+0/-1dB)			<10Hz to >28KHz
	Extended (+0/-3dB)	<10Hz to > 43KHz		
Input Impedance	RCA Input			20ΚΩ
	Spk Level Input	Load On/Off		≤20Ω-180Ω / 20ΚΩ
Input Channel Select	CH1/2			1/2, 1+3/2+4, 1+3+5/2+4+6
	CH3/4			1/2, 3/4, 1+3/2+4, 1+3+5/2+4+6
	CH5/6			1/2, 5/6, 1+3/2+4, 1+3+5/2+4+6
Input Sensitivity	RCA Input	Low Range		200mV – 5V
		High Range		400mV – 10V
	Spk Level Input	Low Range		1V – 20V
		High Range		2V – 40V
Crossover	CH1/2	Slope		-12dB/oct.
		Freq (F 3)	HPF (x1/x10	50Hz – 500Hz / 500Hz – 5kHz
			LPF	50Hz – 500Hz
		Slope		-12dB/oct.
	CH3/4	Freq (F 3)	HPF	50Hz – 500Hz
			LPF (x1/x10)	50Hz – 500Hz / 500Hz-5kHz
		Slope		-24dB/oct.
	CH5/6		Subsonic	10Hz – 50Hz

	(pre-out or CH3/4)	Freq (F 3)	LPF	50Hz – 500Hz
	CH5/6 (pre-out or CH3/4)	Boost		0dB to +12dB
Parametric EQ		Width (Q)		1.5 – 5
		Frequency (Fc)		30Hz – 80Hz
Level Trim	CH1/2, CH3/4, CH5/6	Boost/Cut		+/-6dB
Remote Level Ctrl	CH5/6 (pre-out or CH3/4)	Volume Range		0dB to -30dB
RCA Pre-Out	Max Output Voltage	at <1% THD+N		10V
HCA Pre-Out	Output Impedance			<50Ω
Turn-On Threshold	Remote	REM IN		>2.6V
	DC-Offset	Spk IN	All CH	>1V
	Audio Signal	RCA IN	CH1/2/3/4	<10mV/50mV (1kHz/100Hz)
		Spk IN	CH1/2/3/4	<50mV/250mV (1kHz/100Hz)
Current Draw	Sleep Current			<2.6mA
	Idle Current			<1.4A
Fuse Rating	External (not included)			80A
Operational Voltage	Battery / DC Power Supp	oly	7V – 16V	
	Thermal			Rollback / Auto-Recover
Protection	Over-Voltage			Auto-Recover
	Under-Voltage			Auto-Recover
	Over-Current			Auto-Recover
	Short Circuit			Auto-Recover
	RCA Input			Panel Mount

Terminals	Speaker Level Input		16AWG, Insert/Plug
	Power Supply		4AWG, Insert
	Speaker Output		12AWG, Insert
Chassis Dimensions	HxWxL	w/o terminals, tabs	42 x 140 x 263mm
		W/o tominate, tabe	1.65" x 5.51" x 10.35"
		incl. terminals, tabs	44 x 140 x 289mm
		moi. terminais, tabs	1.73" x 5.51" x 11.38"

Note: All Specifications are subject to change without notice.

Warranty & Service Care

Wāvtech warrants this product to be free from defects in material and workmanship for one (1) year when purchased from an authorized Wāvtech retailer within the United States. This warranty will be extended to a period of two (2) years when the installation is performed by an authorized Wāvtech retailer. A valid sales receipt is required to verify eligibility for purchase and installation. This warranty is valid only to the original purchaser and is not transferrable to subsequent parties. This warranty is void if the product serial number has been altered or removed. Any applicable implied warranties are limited in duration to a period of express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether expressed or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

If your product needs service, you should contact Wāvtech Customer Service to receive a Return Authorization (RA) Number. Any product received without an RA number will be returned to the sender. Once your product is received and inspected by customer service, Wāvtech at its sole discretion, will repair or replace it with a new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, abuse, failure to follow instructions, misuse, modification, neglect, unauthorized repair, or water damage. This warranty does not cover incidental or consequential damages. This warranty does not cover the cost of removing or reinstalling the product. Cosmetic damage and normal wear are not covered under warranty.

For Service within the United States:

• Wavtech Customer Service: 480-454-7017 Monday – Friday, 8:30 am to 5:00 pm MST

Important Notice for International Customers

For products purchased outside the United States of America or its Territories, please contact your local distributor concerning specific procedures for your country's warranty policy. International purchases are not covered by Wāvtech, LLC.

- Serial Number:
- Installation Date:
- Place of Purchase

Wävtech

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www.wavtech-usa.com

Specifications

• Model: link700.4plus

• Power Output: 700W RMS

· Channels: 4

• Website: www.wavtech-usa.com

Frequently Asked Questions

Q: Can I use other than designated parts for installation?

A: No, the use of other parts may damage the unit. Always use authorized accessories for installation.

Q: What should I do if the amplifier gets hot?

A: Ensure proper ventilation and let the amplifier cool down before touching it to prevent any accidents.

Q: How should I handle the wiring to avoid damage?

A: Protect wiring from sharp edges using loom protection and grommets, and avoid contact with moving parts or components like seat hinges.

Documents / Resources



Wavtech link700.4plus 700W RMS 4 Channel Amplifier [pdf] Owner's Manual 241LINK704, link700.4plus, link700.4plus 700W RMS 4 Channel Amplifier, link700.4plus, 700W RMS 4 Channel Amplifier, Channel Amplifier, Amplifier

References

User Manual

Manuals+, Privacy Policy

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