

INSTRUCTIONS FOR CONNECTING AND USING A-H4P

A-H4P CONNECTIONS

Note: When making all connections, be sure that the power supply is not connected.

The A-H4P must be connected to an A-BUS Ready product or hub such as the A-H1. Connect the A-BUS Ready output or the hub output to an RJ-45 connector mounted to a wall plate. Wire the RJ-45 for the T568A standard using CAT-5 8-conductor cable.

Run the CAT-5 to the structured wiring panel and the A-H4P. Follow the color code markings on the A-H4P for the Input 110 punchdown connector. (Use a punchdown tool with a 110 blade to insert conductors).

Run the CAT-5 from each of the A-BUS keypad modules to the structured wire panel connecting to the A-H4P. Follow the above color code and punch down the wire for each keypad.

After all of the punchdown connections are made, route the cables in the box so they are not grouped with other cables in the panel.

LINK IN AND LINK OUT

The Input. Link In and Out is used to connect the A-H4P Hub with an RJ45 patch cable to other A-BUS single-source Hubs or an A-BUS Ready product to increase the number of rooms in a system. The Link connects the Common IR, Status, and the audio source signal. Single-source A-BUS Hubs such as A-H4, A-H2, A-H4P and A-H1 all use the same format for linking. The A-H484 multi-source Hub is different and cannot be linked to single-source Hubs in this manner.

The Link Out or A-BUS Ready Sub-Zone output of one device must be connected to the Link In or Input (Expansion Input of A-H2) of the subsequent device.

NEVER connect the Link Out to another Link Out or A-BUS Ready output. This may damage the components and void the warranty.

Note: Each Hub in the chain requires its own A-PS power supply.

INDICATORS

POWER – The Power LED will be on when the 24VDC power supply is connected.

SYSTEM ON – The System On will be illuminated when the A-BUS Ready product is on or the status power supply connected to the A-BUS interface is on.

IR – The red LED will flash when IR signals are received by the A-BUS keypad. This is used to confirm IR reception to the A-H4P.

MOUNTING

Mount the A-H4P in the structured wiring panel using appropriate fasteners available from the specific panel manufacturer.

SAFETY INSTRUCTIONS

1. Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the appliance in the operating instructions should be adhered to.
4. Follow Instructions – All operating and user instructions should be followed.
5. Water and Moisture – The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
7. Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
8. Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
9. Power Sources – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
10. Grounding or Polarization – Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
11. Power Cord Protection – Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the appliance.
12. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
13. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally; or
 - E. The appliance has been dropped or the enclosure is damaged.
14. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Precautions:

1. Power – WARNING: BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. All models are designed for use with either AC120V, 60Hz or AC240, 50Hz voltages. The unit will autoswitch to either of these voltages.
2. Do Not Touch The A-H1 With Wet Hands – Do not handle the AH-1 or power cord when your hands are wet or damp. If water or any other liquid enters the A-H1 cabinet, take the A-H1 to a qualified service person for inspection.
3. Care – From time to time you should wipe off the front and side panels of the cabinet with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.



Model A-H4P 4-Zone Hub for A-BUS® System Instruction Manual

A-BUS® SYSTEM OVERVIEW

The product you have just purchased is an integral part of the Russound® A-BUS Multi-Room Audio System. It is a component which, when combined with other essential components and your source equipment (receiver, CD player, etc.), creates a versatile whole-house audio system that will fill your rooms with high-quality sound for years to come.

A-BUS technology is a new, innovative method of providing high quality audio to remote locations with a single 8-conductor cable such as CAT-5. A-BUS technology provides many advantages over other methods of audio distribution, including: simple, single CAT-5 wiring scheme; infrared control of system components; infrared control of the optional A-KP2 amplified keypad module; and system power status.

Every A-BUS System is comprised of components from each of the following three areas.

1. **A-BUS Amplified Modules:** The Module contains both the amplifier for the room's speakers as well as the control for those speakers. One Module should be used for each room you choose to control. The Russound A-KP2 Amplified Keypad (with built-in IR receiver) and A-VC Amplified Volume Control are examples of A-BUS Amplified Modules.
2. **A-BUS Hubs:** All components of the A-BUS system must be wired centrally to a Hub located near your source equipment. The Hub provides the connection for source equipment, volume controls, infrared emitters and power supply. The A-H484, A-H4, A-H4D, A-H2 and A-H1 are examples of A-BUS Hubs. The A-H484, A-H4, A-H2 and A-H1 are surface-mount units. The A-H4D is an in-wall Decora® style unit.
3. **Power Supply:** The power supply plugs into the Hub. The Russound A-PS 24VDC/2.5A unit is an example.

A-BUS® is a registered trademark of LeisureTech Electronics Pty Ltd Australia
Decora® is a trademark of Leviton Corporation

Rev. 2 03/22/04 28-1148



5 Forbes Rd. Newmarket, NH 03857, USA
Tel 603.659.5170 • Fax 603.659.5388
e-mail: tech@russound.com

A-H4P OVERVIEW

The A-H4P is an A-BUS Structured Wiring Hub for A-BUS audio products. This 4-zone, 1-source Hub is used with A-BUS Amplified Modules. The A-H4P can also be linked to other A-BUS Hubs (such as the A-H1) and to A-BUS Ready stereo receivers in order to increase the number of zones in a system. For a complete system the A-H4P must be used with an A-BUS Ready product, hub, keypad module and power supply.

A-H4P KEY FEATURES

- 1) Supports 4 A-BUS amplified control modules
- 2) Uses 110 punchdown connectors for ease of installation
- 3) Link In and Out for multiple hub applications
- 4) Compact size can be installed in various types of structured wiring panels

A-H4P SPECIFICATIONS

Power Supply:	A-PS 24VDC/2.5A
Keypad Connection:	110 Punchdown CAT-5
Link Connection:	RJ-45 T568A Standard
Input Connection:	110 Punchdown CAT-5 (A-BUS interface)
Dimensions:	6.5"W x 3"H x 1.25"D (165 x 72 x 30mm)
Weight:	11.5 oz. (326g)

LIMITED WARRANTY

The Russound A-H4P is fully guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. For this warranty to apply, the unit must be installed and used according to its written instructions. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. Accidental damage and shipping damage are not considered defects under the terms of this warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. If service is necessary, it must be performed by Russound. Damage to or destruction of components due to excessive power voids the warranty. In these cases, the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write the RA number on the shipping label and ship to: Russound, ATTN: Service, 5 Forbes Road, Newmarket NH 03857

Russound sells product only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

CONNECTION DIAGRAM FOR RUSSOUND® MODEL A-H4P. REFER TO THE INSTRUCTIONS ON BACK. *DIAGRAMS ARE NOT TO SCALE.*

