

Quick Start Guide HomerLink BreakOut



To download the latest version of SymNet Designer, the Windows application that controls all SymNet hardware, go to: www.symmetrixaudio.com

Before You Begin

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What Ships in the Box

- ☑ A HomerLink BreakOut hardware device (800HLA4, 800HLA8, 800HLAT, 800HLT4 or 800HLT8).
- ☑ One PS-6 (domestic) or PS-6E (export) power supply which provides 9 volts DC @ 500 milliamperes (included with models 800HLAT, 800HLT4 and 800HLT8 only).
- ☑ This Quick Start Guide.
- ☑ An RJ-45 Incompatibility Warning sheet.

What You Need to Provide

- ☑ A SymNet DigIO or other HomerLink compatible hardware device.

Getting Help

SymNet Designer, the Windows application that controls all SymNet hardware, includes a help module which acts as a complete user's guide for both hardware (including the HomerLink BreakOut) and software. A printable copy is also available at www.symmetrixaudio.com.

If you have questions beyond the scope of the help module, contact our Customer Support Group in the following ways:

Tel (425) 778-7728
8:00 am to 4:30 pm
Monday through Friday,
Pacific Time

Email tech@symmetrixaudio.com

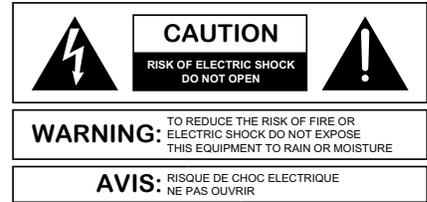
Web www.symmetrixaudio.com

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B Digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations
Cet appareil numérique de la classe B respecte toutes les Exigences du Règlement sur le matériel brouilleur du Canada.

Important Safety Instructions.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install only in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.  When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug cord is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



SEE OWNERS MANUAL. VOIR CAHIER D'INSTRUCTIONS.
No user serviceable parts inside. Refer servicing to qualified service personnel.
Il ne se trouve à l'intérieur aucune pièce pouvant être réparée l'utilisateur.
S'adresser à un réparateur compétent.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product (i.e. this Quick Start Guide).

CAUTION To prevent electric shock, do not use the polarized plug supplied with the unit with any extension cord, receptacle, or other outlet unless the prongs can be fully inserted.

Power Source. The HomerLink BreakOut hardware (models 800HLAT, 800HLT4 and 800HLT8 only) uses a separate external power supply for domestic and export markets. Ensure that your AC mains voltage matches that of your power supply. Refer to rating on the power supply. Use only the power cord and connector specified for the product and your operating locale.

User Serviceable Parts. There are no user serviceable parts inside the HomerLink BreakOut. In case of failure, customers inside the U.S. should refer all servicing to the Symetrix factory. Customers outside the U.S. should refer all servicing to an authorized SymNet distributor. Distributor contact information is available online at www.symmetrixaudio.com.

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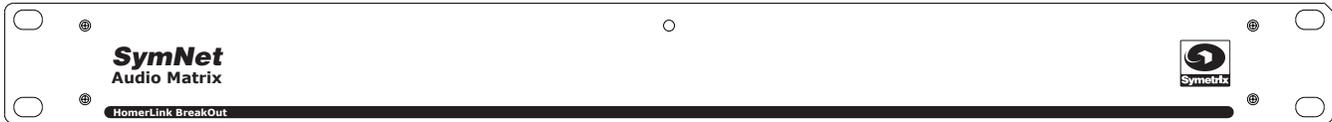
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Introduction, Overview, Mechanical Data, System Connection 2/4

Introduction

The Symetrix SymNet Audio Matrix is a Modular, networkable, audio mixing / routing / processing solution for installed sound systems. Modular and scalable, the SymNet consists of several different hardware modules, which connect to give you a flexible routing and signal processing solution tailored to your needs. Setup is fast and simple using CAD-style control software, SymNet Designer, which runs on a PC connected to the SymNet hardware. SymNet hardware modules are digitally interconnected via SymLink, our low-latency 64-channel digital audio and control bus.

Overview



The HomerLink BreakOut is a 1 rack space SymNet accessory which serves as a breakout point for digital audio channels 5-8 and/or 9-12 on a SymNet DigIO 12x12 DSP. The HomerLink BreakOut connects to a DigIO via HomerLink. HomerLink is a data bus format designed by Symetrix which allows 4 mono bi-directional AES-3 digital audio channels to be transmitted between devices up to 100 meters apart over standard CAT-5 cable. The DigIO features two HomerLink ports which provide audio I/O channels 5-8 and 9-12. These two ports can be connected to one of two types of HomerLink BreakOut modules, the AES4 and TOS4. The AES4 provides AES-3 inputs and outputs on 2 pairs of XLR connectors. The TOS4 provides S/PDIF optical inputs and outputs on 2 pairs of TOSLINK connectors. Each HomerLink BreakOut is a half rack module, and any combination can be fitted side-by-side in a one rack space chassis to provide all remaining DigIO audio I/O channels (5-12) in a single rack space breakout. (See **Rear Panel** for configurations and model numbers.)

Mechanical Data

Item	Discussion	Remarks
Space Required	1U (WDH: 48.3 cm x 15.7 cm x 4.37 cm / 19 in x 6.18 in x 1.72 in). Depth does not include connector allowance.	Allow at least 1 inch additional clearance for rear panel connections. Additional depth may be required depending upon your specific wiring and connections.
Electrical	9 volts DC @ 500 milliamperes (models 800HLAT, 800HLT4 and 800HLT8 only).	Use only Symetrix model PS-6 (domestic) or PS-6E (export) power supply.
Ventilation	Maximum recommended ambient operating temperature is 30 C / 86 F.	
Weight	1.99 kg / 4.38 lbs.	

System Connection

Each HomerLink BreakOut module connects to 1 of 2 HomerLink ports on a DigIO system by way of their respective HomerLink connectors. Standard CAT-5 cables are used and length must be limited to 100 meters each.

Power is only required for the TOS4 module. A power supply is included. Note that the 800HLT8 model will have two power jacks, one for each TOS4 module. The included power supply may be connected to either of the TOS4 modules, as power is shared between the two modules internally. **DO NOT** connect power to both TOS4 modules simultaneously. No power is required for the AES4 module.



Warning! The HomerLink RJ-45 connectors should **ONLY** be connected to other like HomerLink RJ-45 connectors. **NEVER** connect HomerLink connectors to any other RJ-45 connectors.

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Rear Panel

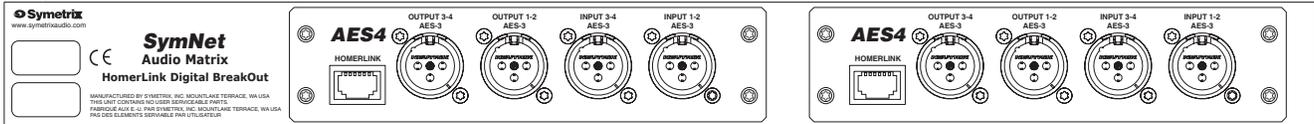
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Rear Panel

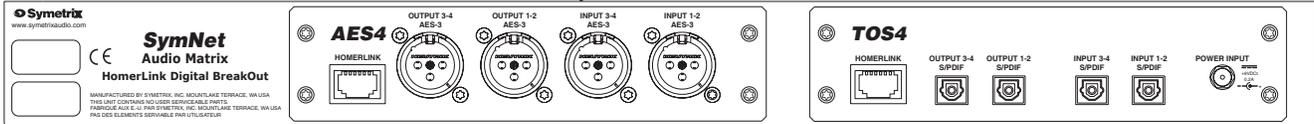
800HLA4 - 4 channel AES-3 BreakOut



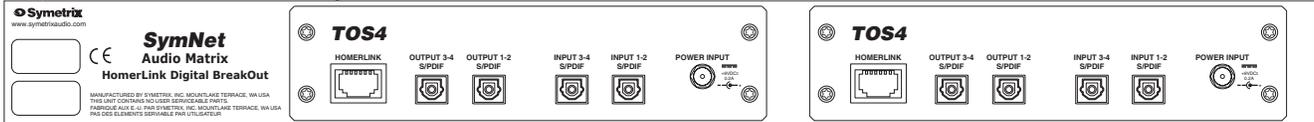
800HLA8 - 8 channel AES-3 BreakOut



800HLAT - 4 channel AES-3 and 4 channel S/PDIF Optical BreakOut



800HLT8 - 8 channel S/PDIF Optical BreakOut



800HLT4 - 4 channel S/PDIF Optical BreakOut



Item	Description	What It Does
HOMERLINK	RJ-45	Transmits 4 AES-3 mono channels and receives 4 AES-3 mono channels over standard CAT-5. Connects to a SymNet DigIO 12x12 DSP.
IN/OUT 1-4 AES-3 (AES4 module)	4 x XLR	Digital inputs and outputs 1-4 in AES-3 format on XLR connectors.
IN/OUT 1-4 S/PDIF (TOS4 module)	4 x TOSLINK	Digital inputs and outputs 3-4 in S/PDIF optical format on TOSLINK connectors.
POWER INPUT (TOS4 module)	Threaded DC Power Jack	Use only Symetrix model PS-6 (domestic) or PS-6E (export) power supply. On model 800HLT8, the supply may be connected to either of the TOS4 modules, as power is shared internally. DO NOT connect power to both TOS4 modules simultaneously.

The Symetrix Limited Warranty

Symetrix, Inc. expressly warrants that the product will be free from defects in material and workmanship for eighteen (18) months from the date the product is shipped from the factory. Symetrix's obligations under this warranty will be limited to repairing or replacing, at Symetrix's option, the part or parts of the product which prove defective in material or workmanship within eighteen (18) months from the date the product is shipped from the factory, provided that the Buyer gives Symetrix prompt notice of any defect or failure and satisfactory proof thereof. Products may be returned by Buyer only after a Return Authorization number (RA) has been obtained from Symetrix. Buyer will prepay all freight charges to return the product to the Symetrix factory. Symetrix reserves the right to inspect any products which may be the subject of any warranty claim before repair or replacement is carried out. Symetrix may, at its option, require proof of the original date of purchase (dated copy of original retail dealer's invoice). Final determination of warranty coverage lies solely with Symetrix. Products repaired under warranty will be returned freight prepaid via United Parcel Service by Symetrix, to any location within the Continental United States. Outside the Continental United States, products will be returned freight collect.

The foregoing warranties are in lieu of all other warranties, whether oral, written, express, implied or statutory. Symetrix, Inc. expressly disclaims any IMPLIED warranties, including fitness for a particular purpose or merchantability. Symetrix's warranty obligation and buyer's remedies hereunder are SOLELY and exclusively as stated herein.

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This limited warranty, with all terms, conditions and disclaimers set forth herein, shall extend to the original purchaser and anyone who purchases the product within the specified warranty period.

Symetrix does not authorize any third party, including any dealer or sales representative, to assume any liability or make any additional warranties or representation regarding this product information on behalf of Symetrix.

This limited warranty gives the buyer certain rights. You may have additional rights provided by applicable law.

Note: Some Symetrix SymNet products contain embedded software and may also be accompanied by control software intended to be run on a personal computer. Said software is specifically excluded from this warranty.

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Servicing the HomerLink BreakOut

If you have determined that your HomerLink BreakOut requires repair services and you live outside of the United States please contact your local SymNet dealer or distributor for instructions on how to obtain service. If you reside in the U.S. then proceed as follows.

Return authorization

At the Symetrix factory, Symetrix will perform in-warranty or out-of-warranty service on any product it has manufactured for a period of three (3) years from date of discontinued manufacture.

Before sending anything to Symetrix, please contact our Customer Service Department for a return authorization (RA) number. The telephone number is (425) 778-7728. Additionally support is available via E-mail through tech@symnetaudio.com or via the web site <http://www.symnetaudio.com>.

In-warranty repairs

To get your HomerLink BreakOut repaired under the terms of the warranty:

1. Call us for an RA number (have the serial number, shipping and contact information and description of the problem ready).
2. Pack the unit in its original packaging materials.
3. Include your name, address, daytime telephone number, and a brief statement of the problem.
4. Write the RA number on the **outside** of the box.
5. Ship the unit to Symetrix, freight prepaid. We do not accept freight collect shipments.

Just do these five things, and repairs made in-warranty will cost you only one way freight charges. We'll pay the return freight.

If you don't have the factory packaging materials, we recommend using an oversize box. Wrap the unit in a plastic bag, surround it with bubble-wrap, and place it in the box surrounded by Styrofoam peanuts. Be sure there is enough clearance in the box to protect the rack ears. We won't return the unit in anything but Symetrix packaging for which we will have to charge you. If the problem is due to operator misuse or error, you will have to pay for both parts and labor. In any event, if there are charges for the repair, you will pay for the return freight. All charges will be COD unless you have made other arrangements (prepaid, Visa or Mastercard).

Out-of-warranty repairs

If the warranty period has passed, you'll be billed for all necessary parts, labor, packaging materials, and freight charges. Please remember, you must call for an RA number before sending the unit to Symetrix.