

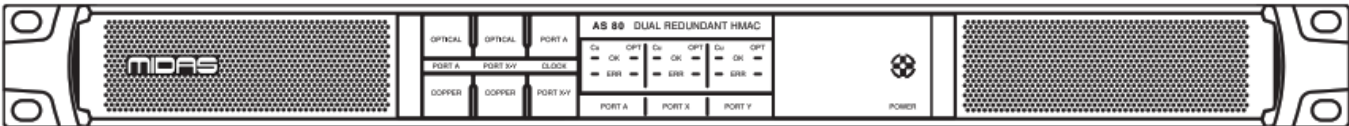


MIDAS AS 80 HMAC to Dual HMAC Converter User Guide

[Home](#) » [MIDAS](#) » MIDAS AS 80 HMAC to Dual HMAC Converter User Guide 



Quick Start Guide
AS 80
HMAC to Dual HMAC Converter



Contents

1

Important Safety Instructions

2

LEGAL DISCLAIMER

3

LIMITED WARRANTY

4

Introduction

5

Getting started

6

Controls

7

AS 80 Example Set-ups

8

Other important information

9

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION


10

Documents / Resources

10.1


References

Important Safety Instructions

 **CAUTION** 

RISK OF ELECTRIC SHOCK!

DO NOT OPEN!

 Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric

shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section).

No user serviceable parts inside. Refer servicing to qualified personnel.



Caution


To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service instructions are for use by qualified service personnel only.

To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

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 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. Use only 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 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.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall

remain readily operable.



17. **Correct disposal of this product:** This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
21. This apparatus may be used in tropical and moderate climates up to 45°C.

LEGAL DISCLAIMER

Music Tribe accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph, or statement contained herein. Technical specifications, appearances and other information are subject to change without notice. All trademarks are the property of their respective owners. Midas, Clark Teknik, Lab Gruppe, Lake, Annoy, Turbosound, TC Electronic, TC Helicon, Behringer, Bugbear, Aston Microphones and Cool audio are trademarks or registered trademarks of Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2023 All rights reserved.

LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at community.musictribe.com/pages/support#warranty.

Caution: Disconnect all power sources



WARNING

Please refer to the information on the exterior of bottom enclosure for electrical and safety information before installing or operating the device.

Introduction

Welcome!

Thank you for purchasing the AS 80 HMAC to dual HMAC converter!

About this QSG/manual

This is the quick start guide and operation manual for the AS 80. This manual is intended to help get your unit installed and in operation as quickly as possible by giving you unpacking, installation, connection, setting up and operating instructions.

To help familiarise you with the AS 80, there is a description of the front and rear panels, along with easy-to-follow user instructions.

Getting started

Unpacking

Carefully unpack your AS 80 unit. Then, inspect the unit carefully for any signs of damage that may have occurred during transit and notify the courier immediately if you discover any. Check the contents of your AS 80 equipment package. If there are any parts missing, incorrect or faulty, please contact your local distributor or Midas support. Inside this box, you should find the following items:

- AS 80
- Quick Start Guide
- 2 Power Cables
- 2pcs M4 screws
- 4pcs M6 screws
- 4pcs Plastic washers
- 1set (4pcs) Plastic feet
- 2pcs Rear mount bracket

Please retain the original packing in case you should need to return the equipment to the manufacturer or supplier, or transport or ship the unit later.

Installation

Before installing and operating this equipment, make sure it is correctly connected to the protective earth conductor of the mains voltage supply socket outlet through each mains lead. Ideally a cool area is preferred, away from power distribution equipment or other potential sources of interference. Do not install the equipment in places of poor ventilation. Do not install this equipment in a location subjected to excessive heat, dust or mechanical vibration.

Allow for adequate ventilation around the equipment, making sure that its fans and vents are not obstructed.

Whenever possible, keep the equipment out of direct sunlight.

Power

The internal power supplies are of the switch mode type that automatically senses the incoming mains voltage and will work where the nominal voltage is in the range 100VAC to 240VAC. The correct leads for connection in the area to which the unit was shipped are supplied with the unit. The equipment should only be plugged into the mains outlets using the supplied leads. Make sure the plug fitted on the supplied mains cable is securely fitted to the mains IEC connector on the unit. When fitting or removing a plug, always hold the plug itself and never use the cable, as this may damage it. Never insert or remove an electric plug with wet hands.

Connecting up

The AS 80 unit uses the following leads and connectors:

HMAC Connections:

Neutrik Ether CON or optical CONDUO

Power Connection:

Standard IEC cable

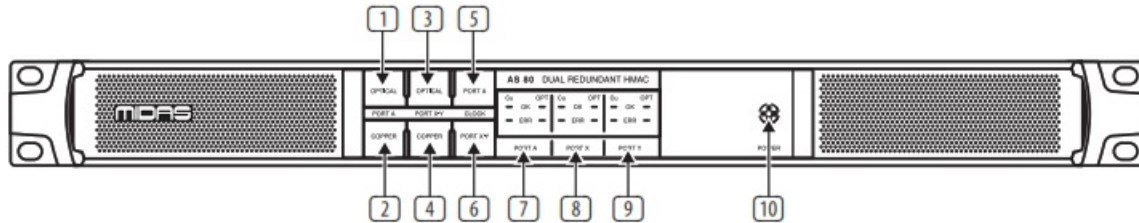
Controls

Overview

The AS 80 is a HMAc to dual HMAc converter for adapting a single source HMAc connection into dual-redundant HMAc lines. It allows existing HD Series optical or copper connections to operate independently up to 192 bidirectional channels at 96 kHz. The unit operates from external clock on either the Snake Port A or either of the dual ports X or Y.

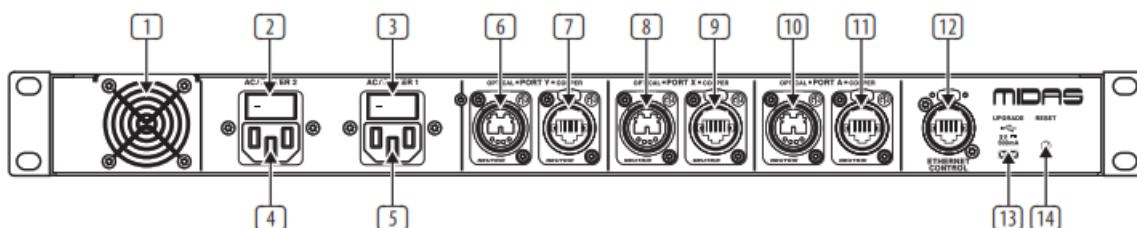
The AS 80 shows redundant status available from connected console indicating cable state and auto-ranging universal switch-mode power supply with failover mode.

On-board intelligence reports cable state for easy diagnostics. Fibre Neutrik optical CON DUO connectors are used for optical fibre snake connection.



Front Panel Controls

1. Port A optical – Button select and LED indicator.
2. Port A copper – Button select and LED indicator.
3. Port X-Y optical – Button select and LED indicator.
4. Port X-Y copper – Button select and LED indicator.
5. Clock source Port A – Button select and LED indicator.
6. Clock source Port X-Y – Button select and LED indicator.
7. Shows port A connection status Copper (Cu) and Optical (OPT).
8. Shows port X connection status Copper (Cu) and Optical (OPT).
9. Shows port Y connection status Copper (Cu) and Optical (OPT).
10. Power indication – Blue when booting or if both PSUs are active. Purple if booted and one PSU is not powered.



Rear Panel Controls

1. Internal fan. Keep clear to allow air flow.
2. Power On/Off switch for PSU 2.
3. Power On/Off switch for PSU 1.
4. IEC power socket 2. Auto-ranging universal switch-mode power supply. 100 v – 240 v.
5. IEC power socket 1. Auto-ranging universal switch-mode power supply. 100 v – 240 v.
6. Port Y Optical connection.
7. Port Y Copper connection.
8. Port X Optical connection.

9. Port X Copper connection.
10. Port A Optical connection.
11. Port A Copper connection.
12. Ethernet Control port.
13. Firmware upgrade port.
14. System reset button.

LED Status indicators:

- Pulsating Green – Link up, carrying audio and control.
- Fast flashing Green – Link down, cable connection detected.
- Flashing Red – Link down, hunting for sync on port.
- Red On – Link down, no cable detected, not hunting.

Port A

Clock=Port A (clock received Port A, clock transmitting port X/Y)

Green	Red	Port Status
Pulsating	Off	Link up, carrying audio and control.
Fast flashing	Flashing	Link down. Cable link up. Selected as clock source.
Off	Flashing	Link down. No cable link. Selected as clock source.

Clock=Port X/Y (clock received port X/Y, clock transmitting port A)

Green	Red	Port Status
Pulsating	Off	Link up, carrying audio and control.
Fast flashing	On/Off	Link down. Cable link up.
Off	On	Link down. No cable link.

Ports X or Y

Clock=Port A (clock received Port A, clock transmitting port X/Y)

Green	Red	Port Status
Pulsating	Off	Link up, carrying audio and control.
On	Off	Link up and in standby.
Fast flashing	On/Off	Link down. Cable link up.
Off	On	Link down. No cable link.

Clock=Port X/Y (clock received port X/Y, clock transmitting port A)

Green	Red	Port Status
Pulsating	Off	Link up, carrying audio and control.
On	Off	Link up and in standby.
Fast flashing	Flashing	Link down. Cable link up. Selected as clock source.
Fast flashing	On	Link down. Cable link up. Not selected as clock source.
Off	Flashing	Link down. No cable link. Selected as clock source.
Off	On	Link down. No cable link. Not selected as clock source.

Firmware

Updates to the AS 80 can be found at <https://cloud.midasconsoles.com/drive/firmware> release notes will guide you through the update process.

You can also update AS 80 units via the HD Series consoles.

Functions

Press and hold the selection buttons for 4s to change a setting. Blue for selected, white for unselected.

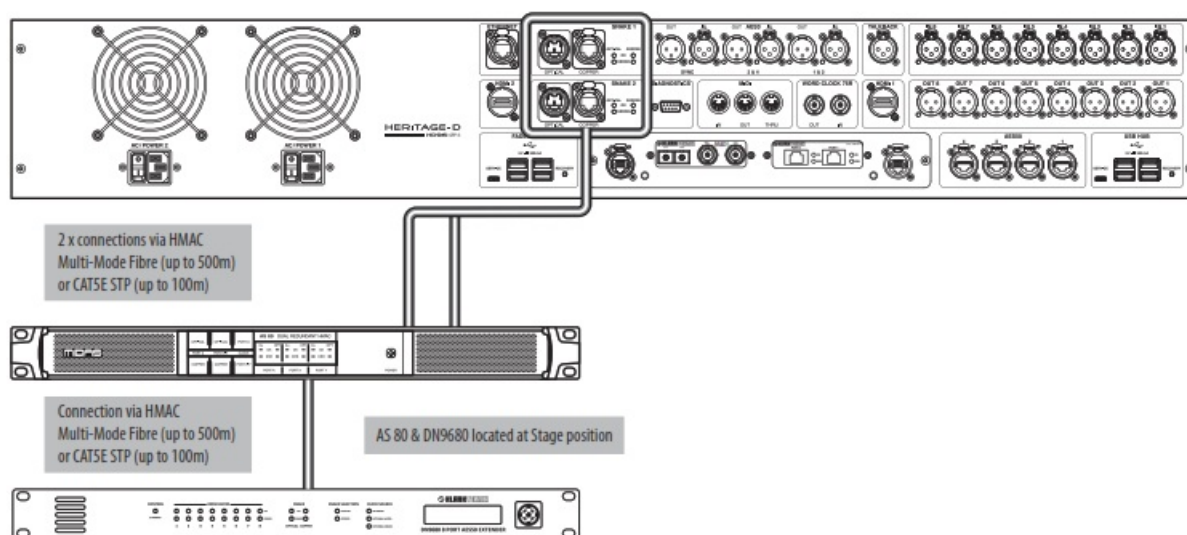
Matching the length and cable types for the redundant connections will create the best conditions for lowest audio loss during a redundant switch over event.

AS 80 Example Set-ups

Redundant HMAC connection

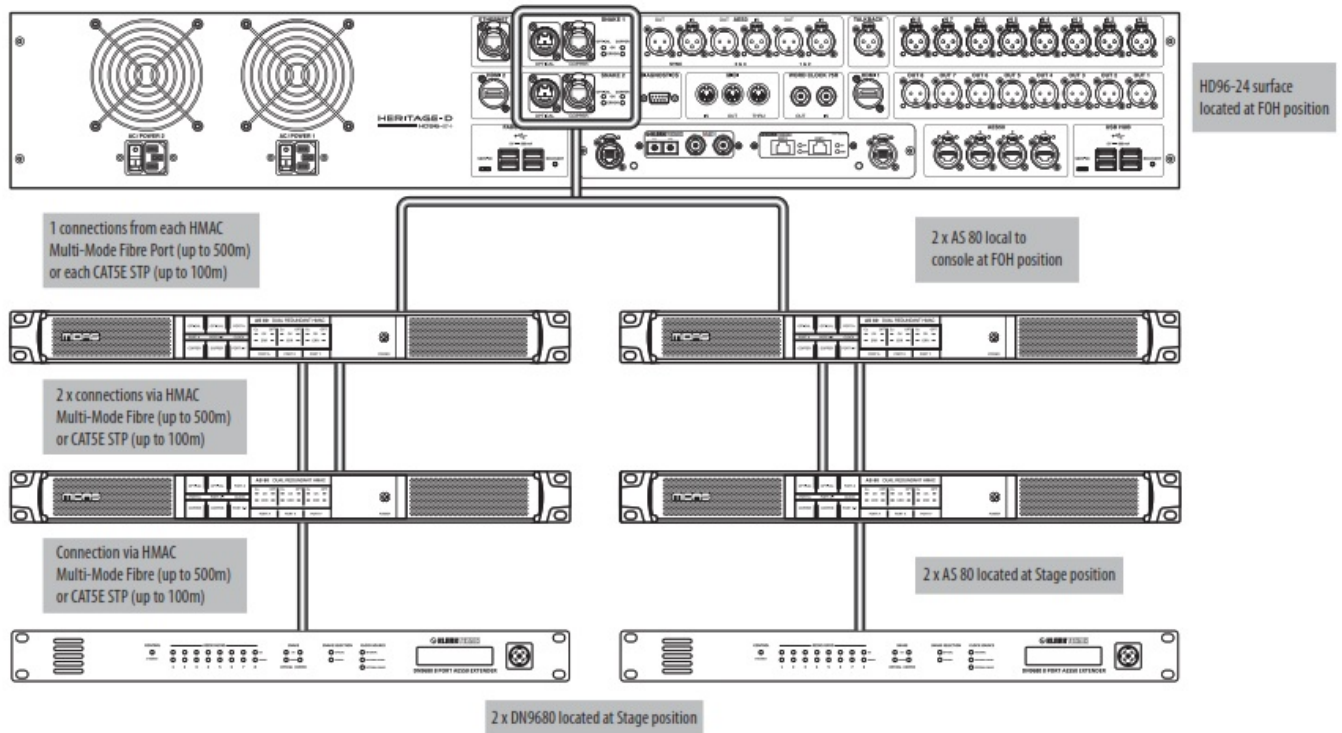
In this example the HD96-24 Console is located at the front of house position (FOH) and the AS 80 is located at the stage position with the DN9680. This allows either 2 Multi-Mode Fibre's or two Shielded Cat5e STP cables to be used to connect the FOH console to the AS 80 giving redundancy of the HMAC. Hypermap redundancy must be turned on in the HD96-24 console in order for this set-up to function correctly.

Note: When using redundant mode, the cables must be the same type, either 2 Fibre or 2 Shielded Cat5e connections. You cannot use 1 fibre and 1 Shielded Cat5e to achieve redundancy.



DUAL Redundant HMAC connection allowing 16 AES50 ports at stage

In this example the HD96-24 Console is located at the front of house position (FOH) with two AS 80's. This allows either 2 Multi-Mode Fibre's or two Shielded Cat5e STP cables to connect the FOH console to the 2 local AS 80. The FOH AS 80's connect to the stage AS 80's with 2 Multi-Mode Fibre's or two Shielded Cat5e STP cables giving redundancy of the HMAC. At the stage position the AS 80's are located with a DN9680 attached to each in order to connect to the stage I/O. This gives a possible 16 AES50 ports (up to 24 inputs and 24 outputs per port) with a pool of a possible 384 inputs depending on connected I/O.



Other important information

Important information

1. Register online. Please register your new Music Tribe equipment right after you purchase it by visiting musictribe.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. Malfunction. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under "Support" at musictribe.com. Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at musictribe.com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.
3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

Midas AS 80

Responsible Party Name:	Music Tribe Commercial NV Inc.
Address:	122 E. 42nd St.1, 8th Floor NY, NY 10168, United States
Email Address:	legal@musictribe.com

AS 80

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment 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.

Warning: Operation of this equipment in a residential environment could cause radio interference.

Important information:

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.

Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>

EU Representative: Music Tribe Brands DK A/S

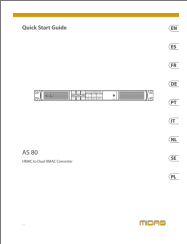
Address: Gammel Strand 44, DK-1202 København K, Denmark

UK Representative: Music Tribe Brands UK Ltd.





Address: 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom



Documents / Resources

	<p>MIDAS AS 80 HMAC to Dual HMAC Converter [pdf] User Guide</p> <p>AS 80 HMAC to Dual HMAC Converter, AS 80, HMAC to Dual HMAC Converter, HMAC Converter, Converter</p>
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References

-  [Music Tribe](#)
-  [Music Tribe](#)
-  [Midas Cloud \(Beta\)](#)
-  [Music Tribe](#)