

MIDAS

MIDAS HUB4 PRO 96k
Monitor System Hub



MIDAS HUB4 PRO 96k Monitor System Hub User Guide

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MIDAS HUB4 PRO 96k Monitor System Hub



Product Specifications

- **Product Name:** HUB4 PRO
- **Features:** 96k Monitor System Hub with 4 PoE Ports for Personal Mixers or Compatible Stage Boxes, AES50 In and Through with SRC, StageConnect and 16-Channel Analogue Out
- **Version:** 1.0

Product Usage Instructions

Important Safety Instructions

This product contains potentially dangerous voltage inside the enclosure. Please read and adhere to the following safety instructions:

1. Do not remove the top cover or rear section of the product as it contains dangerous voltage. Refer servicing to qualified personnel.
2. Avoid exposing the product to rain, moisture, or liquids. Do not place liquid-filled objects on the apparatus.
3. Service and repairs should only be performed by qualified personnel as per the provided instructions.
4. Ensure proper electrical connections and grounding as specified to prevent electric shock.
5. Use only recommended attachments and accessories to maintain product safety.
6. When moving the product, use specified carts or stands to prevent tip-over accidents.
7. Unplug the product during storms or when not in use for an extended period.
8. Avoid installation in confined spaces and keep naked flame sources away from the apparatus.

Legal Disclaimer and Limited Warranty

Refer to Music Tribe's Limited Warranty terms and conditions available online for complete warranty information.

Frequently Asked Questions (FAQ)

- **Q: Can I use any accessories with the HUB4 PRO?**

A: It is recommended to use only accessories and attachments recommended by the manufacturer to ensure product safety and optimal performance.

- **Q: What should I do in case of a power outage or storm?**

A: Unplug the HUB4 PRO during storms or if not in use for a long period to prevent potential damage due to power fluctuations.

HUB4 PRO

96k Monitor System Hub with 4 PoE Ports for Personal Mixers or Compatible Stage Boxes, AES50 In and Through with SRC, StageConnect and 16-Channel Analogue Out

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

- **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.

- **Warning**

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

1. Please read and follow all instructions and warnings.
2. Keep the apparatus away from water (except for outdoor products).
3. Clean only with dry cloth.
4. Do not block ventilation openings. Do not install in a confined space. Install only according to manufacturer's instructions.
5. Protect the power cord from damage, particularly at plugs and appliance socket.
6. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
7. 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 (only for USA and Canada). 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.



8. Use only attachments and accessories recommended by the manufacturer.
9. Use only specified carts, stands, tripods, brackets, or tables. Use caution to prevent tip-over when moving the cart/apparatus combination.
10. Unplug during storms, or if not in use for a long period.
11. Only use qualified personnel for servicing, especially after damage.
12. The apparatus with protective earthing terminal shall be connected to a MAINS socket outlet with a protective earthing connection.

13. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
14. Avoid installing in confined spaces like bookcases.
15. Do not place naked flame sources, such as lighted candles, on the apparatus.
16. Operating temperature range 5° to 45°C (41° to 113°F).

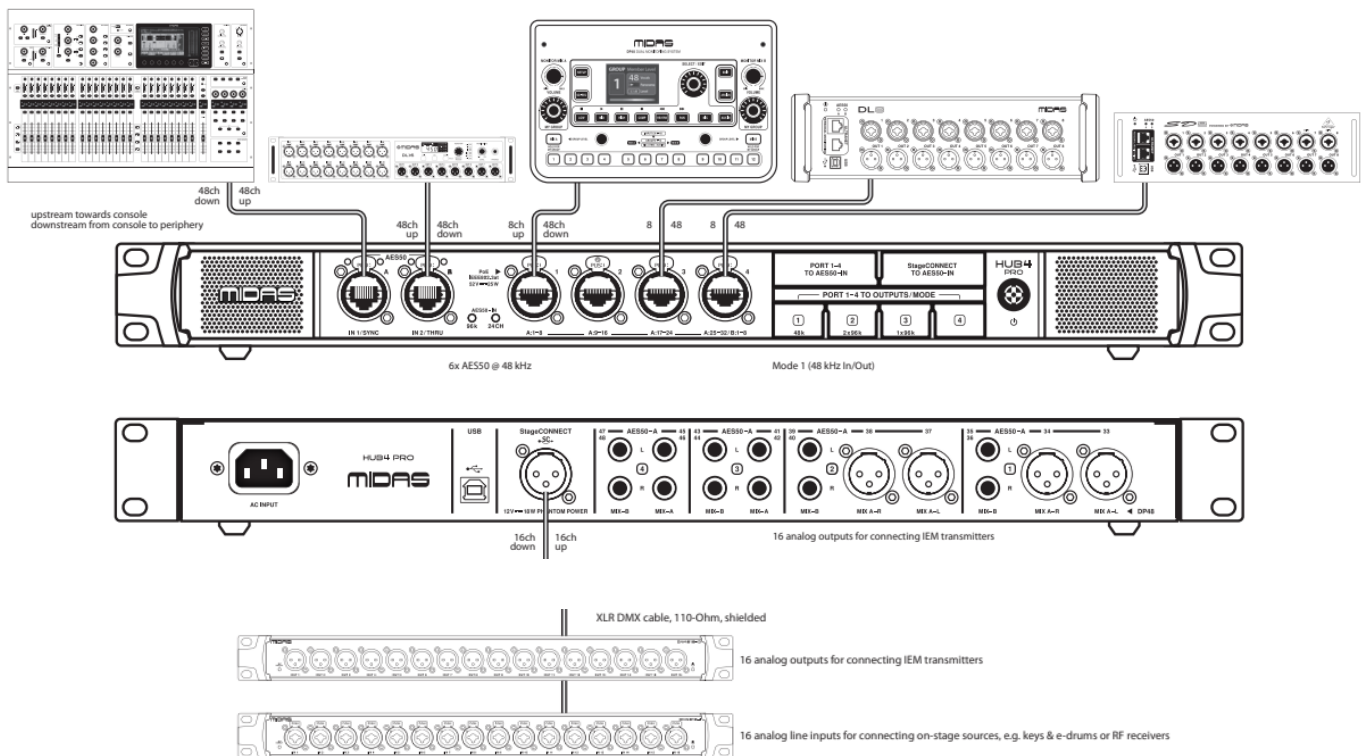
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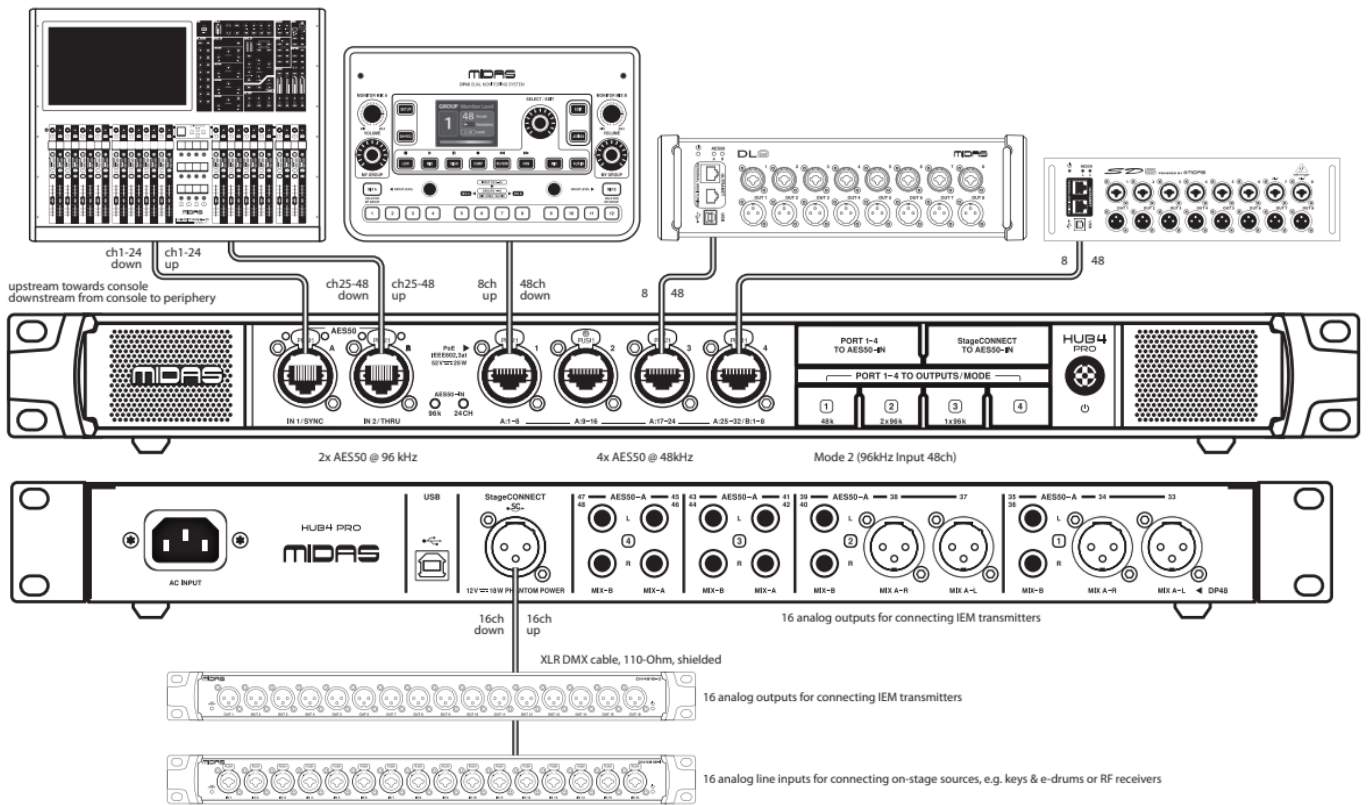
LIMITED WARRANTY

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/support.

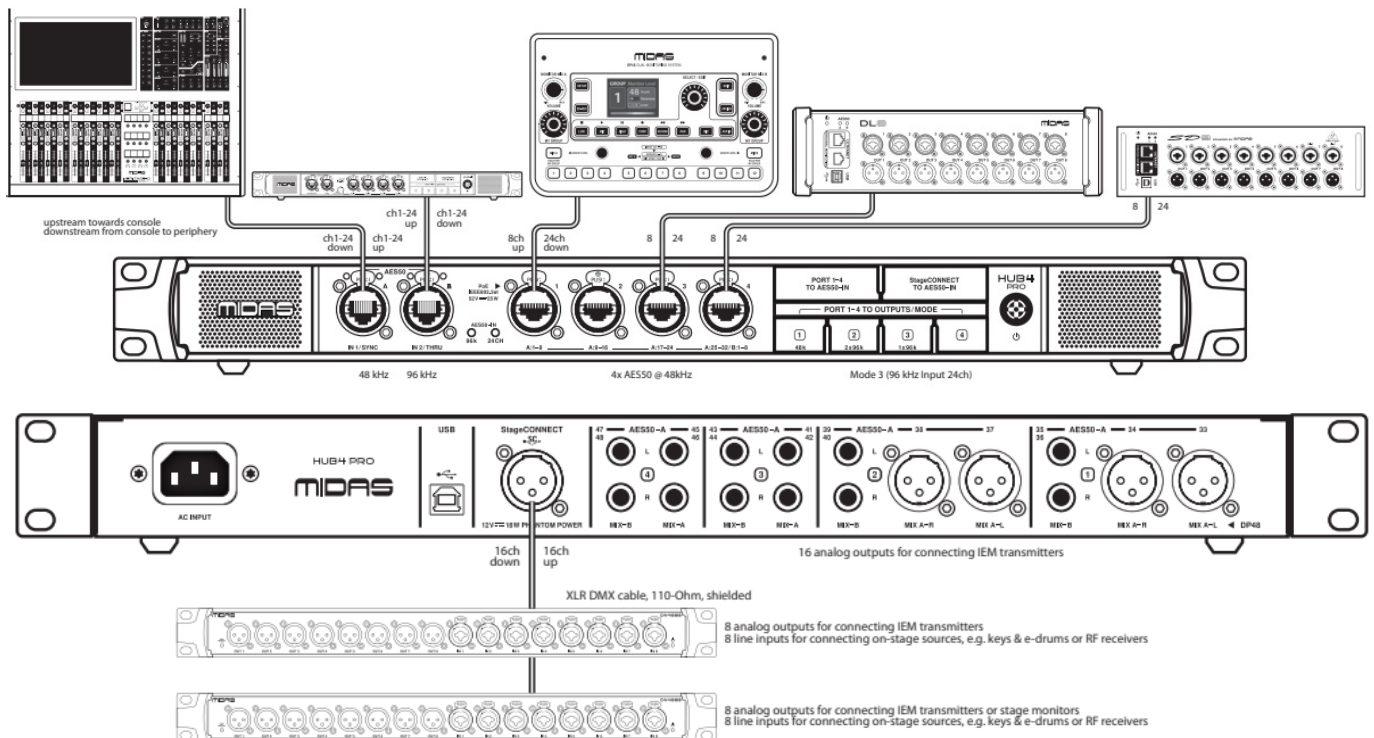
Step 1: Hook-Up



Hookup – 44.1 / 48 k mode

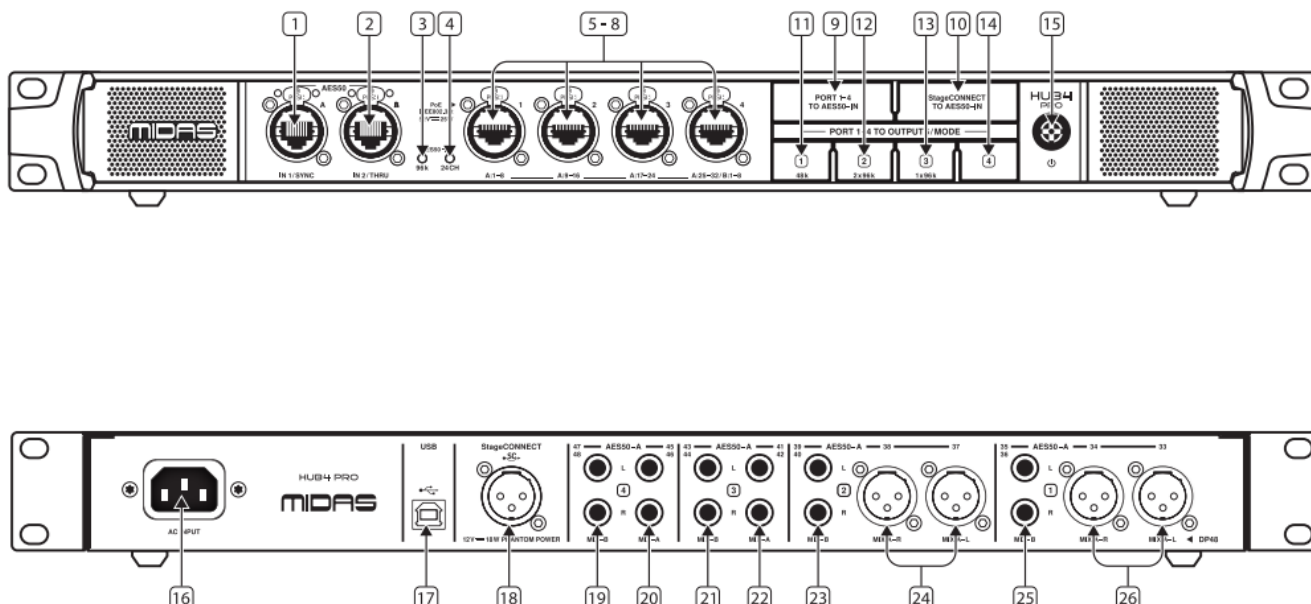


Hookup – 96k 24 channel mode



Hookup – 96k 24 channel mode

Step 2: Controls



FRONT PANEL

1. AES50 IN 1/SYNC – use this Ethercon™ socket to connect the HUB4 PRO to for example the Midas HD96 or M32 series mixing consoles. The HUB4 PRO will synchronize to a compatible AES50 source, when connected to this socket. If you are using either of the 96 kHz modes, then the signals will be downsampled to 48 kHz for output ports 1-4 (sockets 5-8) and for StageConnect (socket 18 on the rear panel). In that case this socket inputs channels 1 – 24, and it sends 24 channels upstream back to the AES50 Source.
2. AES50 IN 2/THRU – use this Ethercon™ socket either as a second AES50 96 kHz input, carrying channels 25 – 48, or as an AES50 Thru to cascade audio to other devices when in 48 kHz mode. Note: when the console is in 44.1 kHz, the HUB4 PRO is automatically set to 44.1 kHz.
3. 96k LED – this LED indicator will be lit when the HUB4 PRO is in 96 kHz mode.
4. 24 CHANNEL LED – this LED indicator will be lit when the HUB4 PRO is in 96 kHz 24-Channel mode.
5. – 8. PERSONAL MIXER CONNECTIONS – use these sockets to connect the HUB4 PRO to compatible devices, for example the Midas DP48 Personal Monitor Mixer, or DL8 Stage Box. These sockets can provide Power Over Ethernet (PoE) at 52 V DC 25 Watt. Sockets 1, 2, 5 – 8 should be used with shielded Ethercon™ cables of up to 80 metres in length.
6. PORT 1-4 – use this button to send the return channels from ports 1 – 4 to AES50 upstream channels 1 – 32. This can be used for example when connected to suitable personal mixers or stage boxes.
7. StageConnect – use this button to send the 16 return channels from the StageConnect bus to AES50 upstream channels 33 – 48. Press the button and hold during power up to update the HUB4 Firmware using the rear panel USB socket (17). The button will flash until the update is complete.
8. PORT 1/48k – use this button to link outputs 1 (sockets 25 & 26 on the rear panel) to Port 1 return signals. Also used to select 48 kHz mode, by pressing and holding the button during powerup. Settings will be saved until changed.
9. PORT 2/2 x 96k – use this button to link outputs 2 (sockets 23 & 24 on the rear panel) to Port 2 return signals. Also used to select 2 x 24 channel 96 kHz mode, by pressing and holding the button during powerup. Settings will be saved until changed.
10. PORT 3/1 x 96k – use this button to link outputs 3 (sockets 21 & 22 on the rear panel) to Port 3 return signals. Also used to select 1 x 24 channel 96 kHz mode, by pressing and holding the button during powerup. Settings

will be saved until changed.

11. PORT 4 – use this button to link outputs 4 (sockets 19 & 20 on the rear panel) to Port 4 return signals.

12. POWER SWITCH

REAR PANEL

13. POWER SOCKET – use the supplied power cable to connect the HUB4 PRO to a suitable power source.

Voltage range is 100 V to 240 V, current draw is 180 W maximum.

14. USB SOCKET – use this USB 2.0 Type B socket to update the Hub 4 Pro's firmware. See HUB4 PRO operation modes for firmware update process.

15. StageConnect OUTPUT – use this socket to connect a suitable StageConnect slave device, for example the Midas DN4816-O or the

KT DN4816-U. The StageConnect bus will send either AES50 channels 48 or the outputs of ports 1 – 4 depending on the settings of buttons 11 – 14. Input signals on StageConnect may be sent upstream to the attached console on AES50 when button 10 is active. Use 110 Ω DMX cables of up to

16. metres in length to make the connection.

17. OUTPUT 4 MIX B – depending on the use of switch 14 these 6.35 mm TRS balanced jack sockets will either carry the Mix B output of Port 4 or AES50 channels 47 & 48.

18. OUTPUT 4 MIX A – depending on the use of switch 14 these 6.35 mm TRS balanced jack sockets will either carry the Mix A output of Port 4 or AES50 channels 45 & 46.

19. OUTPUT 3 MIX B – depending on the use of switch 13 these 6.35 mm TRS balanced jack sockets will either carry the Mix B output of Port 3 or AES50 channels 43 & 44.

20. OUTPUT 3 MIX A – depending on the use of switch 13 these 6.35 mm TRS balanced jack sockets will either carry the Mix A output of Port 3 or AES50 channels 41 & 42.

21. OUTPUT 2 MIX B – depending on the use of switch 12 these 6.35 mm TRS balanced jack sockets will either carry the Mix B output of Port 2 or AES50 channels 39 & 40.

22. OUTPUT 2 MIX A – depending on the use of switch 12 these XLR3M sockets will either carry the Mix A output of Port 2 or AES50 channels 38 & 37.

23. OUTPUT 1 MIX B – depending on the use of switch 11 these 6.35 mm TRS balanced jack sockets will either carry the Mix B output of Port 1 or AES50 channels 35 & 36.

24. OUTPUT 1 MIX A – depending on the use of switch 11 these XLR3M sockets will either carry the Mix A output of Port 1 or AES50 channels 33 & 34.

HUB4 PRO ID assignment

To assign an ID from 1 to 5 to the HUB4 PRO, press and hold the button "PORT 1-4 TO AES50" followed by one of the following buttons, depending on the desired ID:

ID Number	Button Press
1	Port 1
2	Port 2
3	Port 3
4	Port 4
5	StageConnect TO AES50-IN

To show the current device ID, press the button PORT 1-4 TO AES50-IN once. The button “1”, “2”, “3”, “4” or “StageConnect TO AES50-IN” will light green, 3. corresponding to its associated ID.

HUB4 PRO Getting started

Step 3: Getting started

Unpacking

Carefully unpack your HUB4 PRO 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 HUB4 PRO 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:

- HUB 4 PRO
- IEC power cable
- Quick Start Guide

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 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 100 VAC to 240 VAC.

- 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 HUB4 PRO unit uses the following leads and connectors:
- Power Connection: Standard IEC cable
- Inputs: Ethercon
- Outputs: 3-pin XLR Male, 6.35 mm Jack, Ethercon

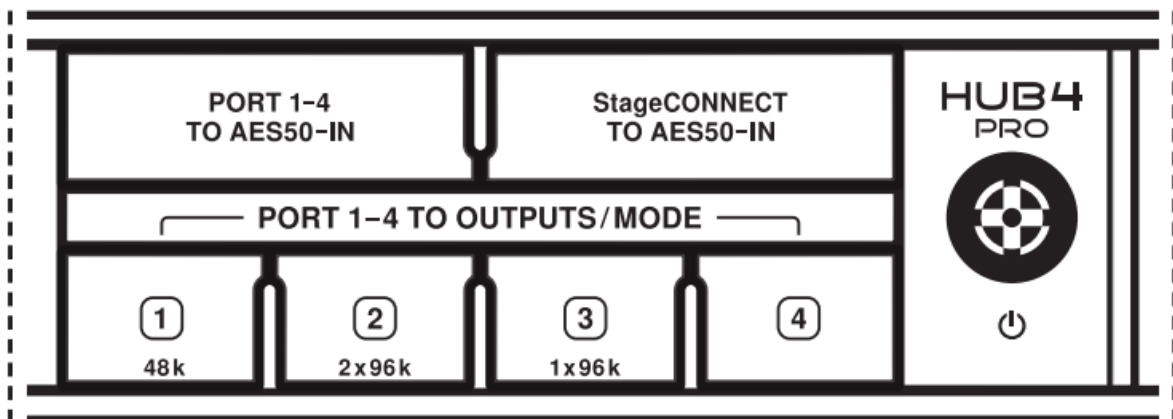
Operating Mode Description

HUB4 PRO:

HUB4 PRO can be started up to work in 5 different modes. To switch between these modes, it is necessary to press and hold one of the front panel buttons during start-up.

- FIRMWARE UPDATE > press and hold “StageConnect To AES50-IN”
- ACTIVATE CLOCK MASTER > press and hold “Port 1-4 To AES50-IN” (non persistent)
- Mode 1, 48 kHz input > press and hold button “1”
- Mode 2, 96 kHz 48-ch input > press and hold button “2”
- Mode 3, 96 kHz 24-ch input > press and hold button “3”

Mode 1 operates at a sample-rate of 48kHz, throughout. Modes 2 and 3 operate at 96kHz input with internal high-quality sample rate conversion and thus enable integration of Midas DP48, DL32, DL16 and DL8 working at 48 kHz with the Midas PRO- or HD-Series mixers working at 96 kHz.



Port 1-4 To AES50-IN

Temporarily activates the Clock Master mode until next power cycle, for operation with sync-slave devices

StageConnect To AES50-IN

Will set the unit to wait for a firmware update transfer over USB MIDI SysEx. Buttons will flash while the update is being transferred.

DO NOT SWITCH OFF during update!

1. @48kHz

48ch Input on AES50-A and 48ch Thru on AES50-B (same routing as on HUB4)

2. @96kHz

Channels 1-24 Input on AES50-A and channels 25-48 Input on AES50-B (daisy-chain at 48kHz via one of the four other AES50 Ports possible)

Special 48 kHz Thru Function:

When the "Port 1-4 To AES50-IN" is inactive, then 48ch@48 kHz Upstream signals that are coming in over Port 1, will be converted to 96 kHz and sent to the console via AES50-A and -B

3. @96kHz

Channels 1-24 Input on AES50-A and channels 1-24 Thru on AES50-B

In mode 3, AES50 port B operates at 48kHz and channels 1-24 are transmitted bidirectionally to port A at 96kHz.

Specifications

ID Number	Button Press
1	Port 1
2	Port 2
3	Port 3
4	Port 4
5	StageConnect TO AES50-IN
Digital Input/Output	
AES50	2 x Ethercon™
Hubs	4 x Ethercon™
StageConnect	1 x 3 pin XLRM
Analog Outputs	
Outputs 1	2 x 6.35 mm TRS jack
	2 x 3 pin XLRM
Outputs 2	2 x 6.35 mm TRS jack
	2 x 3 pin XLRM
Outputs 3	4 x 6.35 mm TRS jack
Outputs 4	4 x 6.35 mm TRS jack
Output Impedance	100 Ω
Maximum output level	+21.5 dBu
USB	
Class compliant USB 2.0 Type B	

Controls	
Buttons	Port 1 – 4 to AES50 In
	StageConnect to AES50 In / Update
	Port 1 to Outputs 1 / 48 KHz
	Port 2 to Outputs 2 / 96 kHz x 2
	Port 3 to Outputs 3 / 96 kHz x 1
	Port 4 to Outputs 4
	Power on / off
LED Indicators	
	96 kHz
	24 Channel
	Power On
Power Requirements	
Power Socket	C13 IEC
Voltage Range	100 V to 240 V
Consumption	180 W maximum
Dimensions / Weight	
Operating Temperature	5° C – 45° C (41° F – 113° F)
Dimensions (H x W x D)	50 x 482 x 291 mm (1.9 x 18.9 x 11.4")
Weight	8.72 lbs / 3.96 kg

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

- 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.cokm

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.



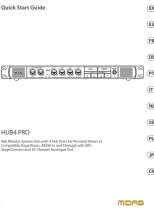
Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

- 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






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.



Documents / Resources

	<p>MIDAS HUB4 PRO 96k Monitor System Hub [pdf] User Guide V 1.0, HUB4 PRO 96k Monitor System Hub, HUB4 PRO, 96k Monitor System Hub, Monitor System Hub, System Hub, Hub</p>
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References

-  [Behringer | Home](#)
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-  [Music Tribe](#)
- [User Manual](#)

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