

# OST-8 adat

8-SLOT 500 SERIES RACK  
WITH PREMIUM 24 BIT 192K ADC



## USER MANUAL



# INTRODUCTION

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Thank you for choosing the **OST-8 adat**. Heritage Audio is dedicated to bringing you ‘the sound of yesterday for tomorrow’. We specialize in capturing that unique, enticing sound that everybody has fallen in love with. For years engineers, producers and musicians have been yearning for that classic vibe. Usually the only option is to search for old, used original equipment that is almost always in a questionable state of operation. This brings with it a whole lot of other issues, making the experience less than desirable. Not to mention the very high prices asked for this equipment, which makes them virtually unobtainable for the great majority. Now it’s possible to obtain that same sound with a brand new piece that will give you all the problem-free, heavy-duty use you’ll need for years of music making history.

**Peter Rodriguez**  
CEO  
Heritage Audio - Madrid, Spain



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## DESCRIPTION

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The **OST-8 adat** 500 series enclosure is designed for racking any and all 500-series modules and devices, including 'double wide' modules and even the most demanding class-A and vacuum tube designs, and connect them to your existing audio interface. It features Heritage Audio's On Slot Technology, providing maximum protection, filtering, and isolation to each channel. While most 500-series enclosures on the market have a relatively simple power supply design essentially feeding every channel in parallel, each channel of the **OST-8 adat** enclosure has its own power supply, individually regulated and isolated from the rest. This ensures that every 500-series module installed will perform at its peak potential, and that no 'power hungry' or even a faulty module will compromise the performance of another. In addition to reducing interference, many 500-series devices actually exhibit lower self-noise and better performance when racked in the **OST-8 adat** enclosure, specially mic preamps.

The best part is we have incorporated a premium analog to digital converter to send your signals on to your DAW as easily as possible. This high quality, premium ADC is 24Bit and offers selectable internal sampling frequencies variable from 44.1k to 192k in addition to being externally syncable by WordClock. This all takes place using just one ADAT Lightpipe cable. One of the neatest features of the unit is the ability to individually, per channel, decide whether the signal converted and sent to the DAW comes directly from the corresponding input (non-processed signal), after the 500 series module (processed signal) or from an external source. What this allows you to do is send your '500 Series' processed signal out to another signal processor and then return it to the unit so it can be converted digitally and sent along to your DAW. This can really come in handy if you need a bit of external rack EQ or compression for more control before the digital conversion. This actually means you have 3 selectable sources for each of the eight converters, a seemingly small detail that can really make a big difference when you're knee deep in the mix or session and don't have time to spare.

This also means that you can use the **OST-8 adat** as a stand-alone converter and gradually add 500 modules at your convenience to setup your ideal rig. So for those times when all you need is a top-of-the-line analog to digital converter, look no further, you already have it right here.

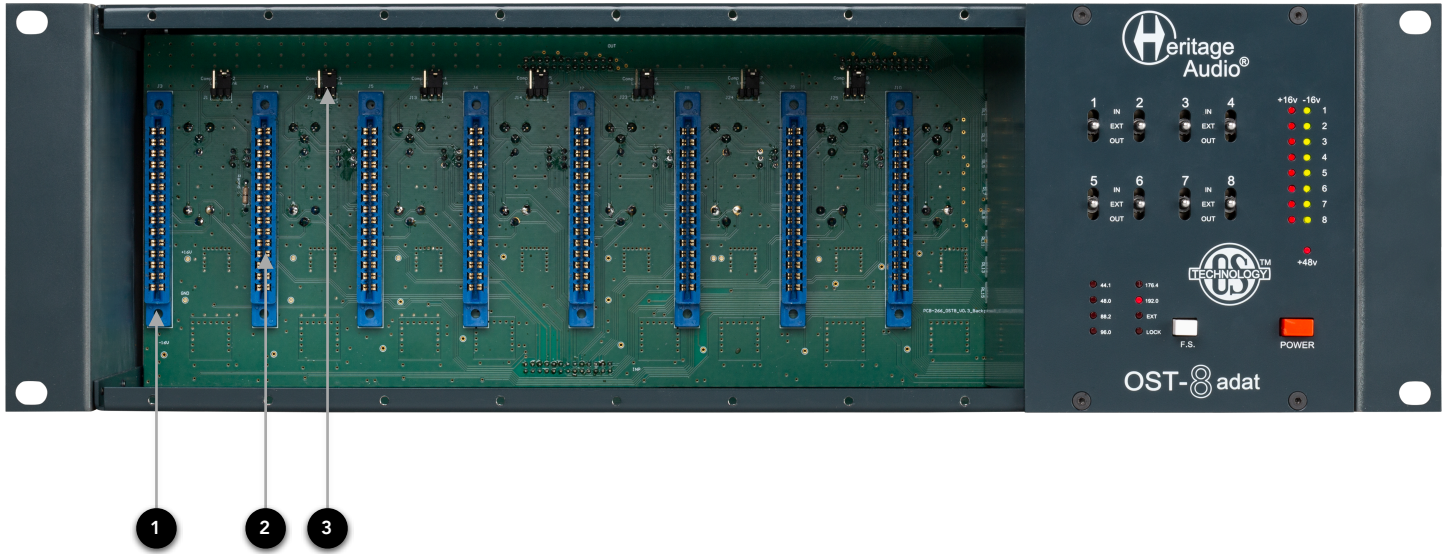
All the inputs and outputs are provided on gold plated XLRs with LINE inputs and outputs also being offered on DB25 connectors for convenience. These DB25 connectors follow the TASCAM protocol for wiring. The alternative 8 External Inputs for the converter are also available on a DB25 connector. Then, of course, are the format specific connectors for ADAT (two of them for SMUX possibilities) and BNC WordClock Input and Output.

Another new and exciting feature in the **OST-8 adat** is the Link option, allowing each channel to be internally routed over to the next at the push of a button (via back panel), no patch cables required!

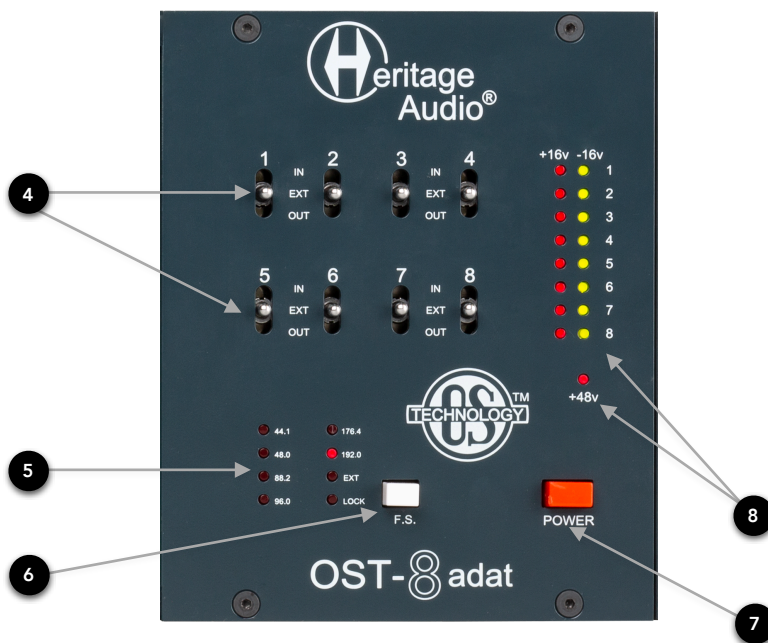
As with all Heritage Audio products; the 500 Series **OST-8 adat** enclosures are built utilizing the most cutting edge methods in manufacturing and design, without ever compromising audio quality or cutting corners.

# GETTING STARTED

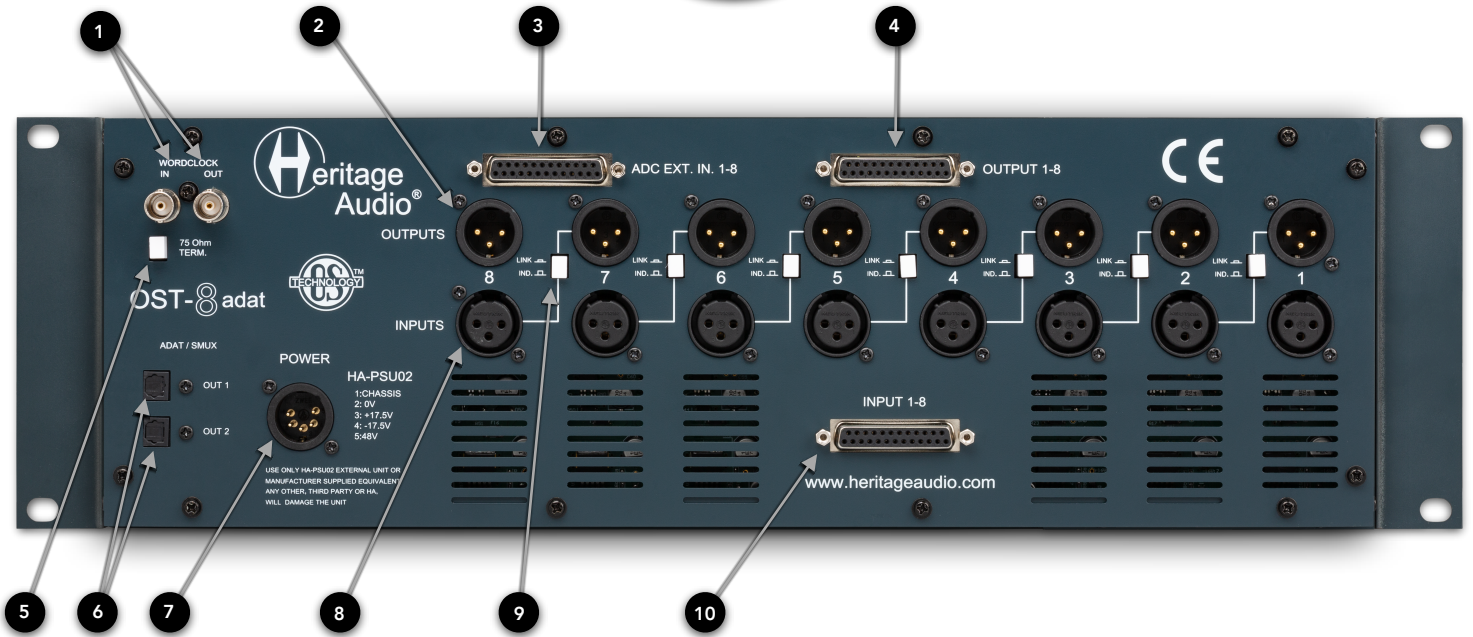
## FRONT



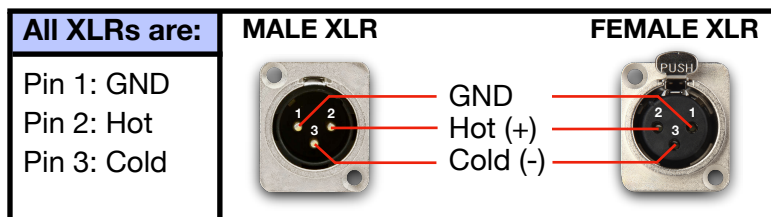
1	2	3	4	5
<b>ON SLOT TECHNOLOGY</b> Individual power per slot	<b>SLOTS (8)</b> On Gold Plated Edge Connectors	<b>COMPRESSION LINKS</b> Jumpers used to determine the Compression Linking between adjacent slots	<b>ADC INPUT SWITCHES 1-8</b> To choose the input path for the analog to digital converter	<b>FREQUENCY INDICATOR</b> Sampling Frequency of the ADC
6	7	8		
<b>FREQUENCY SELECTOR FOR ADC</b> To Choose the Desired Sampling Frequency of the ADC	<b>POWER BUTTON ON/OFF</b> Turns the Unit On	<b>VOLTAGE LEDs</b> Verify that the correct voltage is arriving at each slot (+16v/-16v) as well as +48v		



REAR



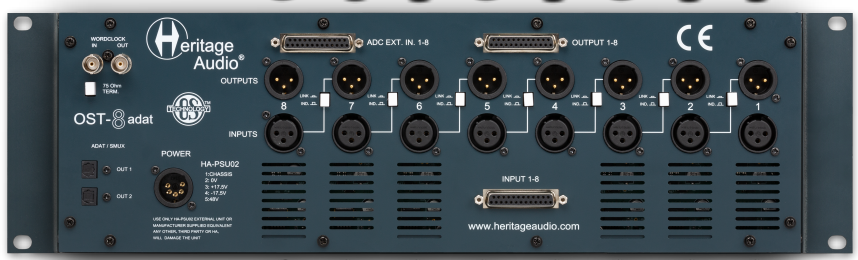
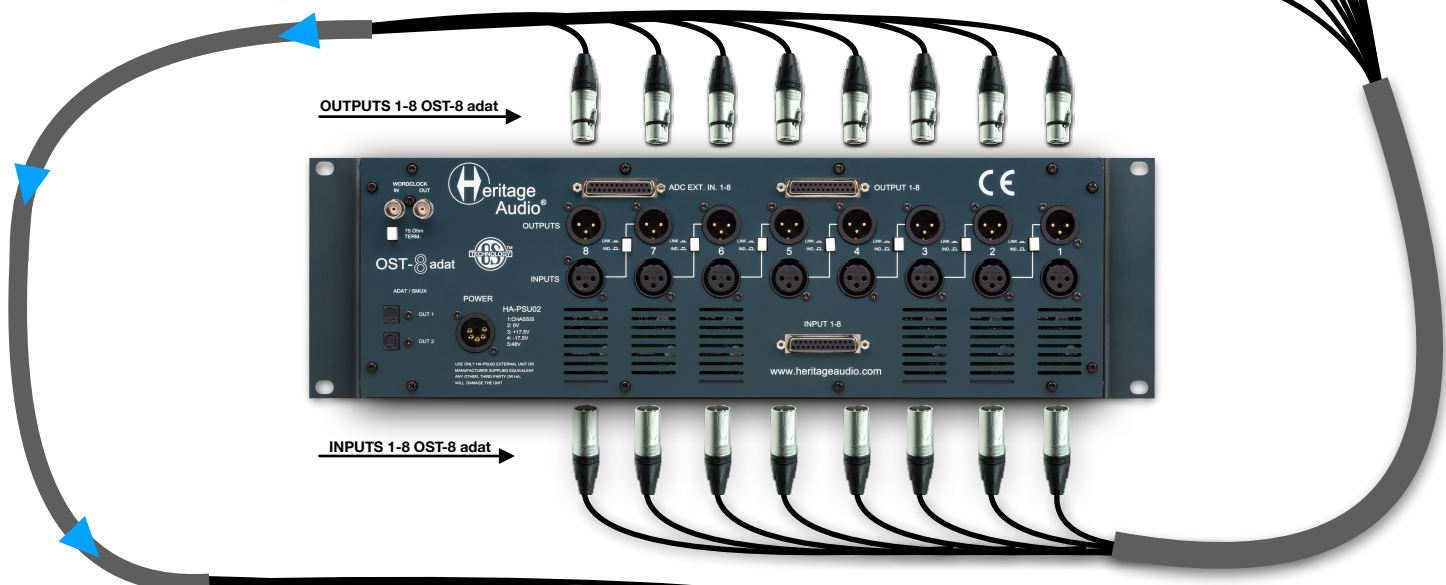
1	2	3	4	5
<b>BNC IN &amp; OUT CONNECTOR</b> Connect for Wordclock Syncing	<b>OUTPUTS</b> On Gold Plated XLRs	<b>25 PIN D-SUB(DB25) CONNECTOR ANALOG TO DIGITAL CONVERTER</b> Additional External Line Inputs	<b>25 PIN D-SUB(DB25) CONNECTOR OUTPUTS</b> Line Outputs	<b>75 Ohm TERM BUTTON</b> Push to Activate Termination
6	7	8	9	10
<b>ADAT - S/MUX Optical Ports</b> Outputs on Digital ADAT Format	<b>EXTERNAL POWER INPUT HA-PSU02</b> On Gold Plated XLR5	<b>INPUTS</b> On Gold Plated XLRs	<b>AUDIO LINKS</b> Link Output With Input of Adjacent Slot	<b>25 PIN D-SUB(DB25) CONNECTOR INPUTS</b> Line Inputs



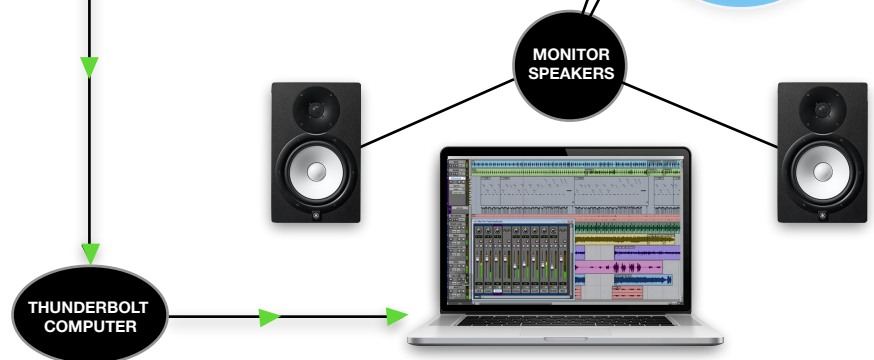
DRUM RECORDING  
SETUP 1



1 - MIC INPUT	KICK
2 - MIC INPUT	SNARE ↑
3 - MIC INPUT	SNARE ↓
4 - MIC INPUT	HI HAT
5 - MIC INPUT	TOM 1
6 - MIC INPUT	TOM 2
7 - MIC INPUT	OH - L
8 - MIC INPUT	OH - R



**LINE INPUTS**



# DRUM RECORDING SETUP 2



SELECT "OUT" POSITION

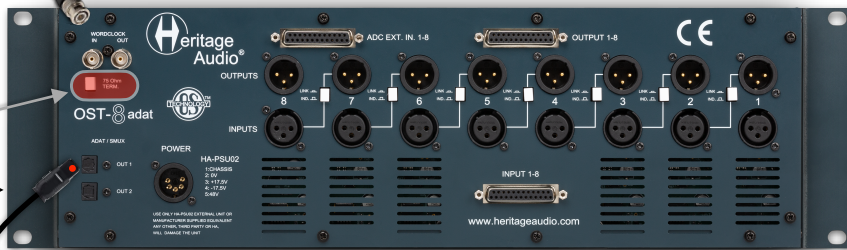
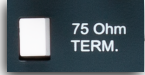


SELECT "EXT" POSITION



1 - MIC INPUT	KICK
2 - MIC INPUT	SNARE ↑
3 - MIC INPUT	SNARE ↓
4 - MIC INPUT	HI HAT
5 - MIC INPUT	TOM 1
6 - MIC INPUT	TOM 2
7 - MIC INPUT	OH - L
8 - MIC INPUT	OH - R

ACTIVATE "TERM" BUTTON



ADAT OUT

ADAT IN

WORD CLOCK IN

WORD CLOCK OUT

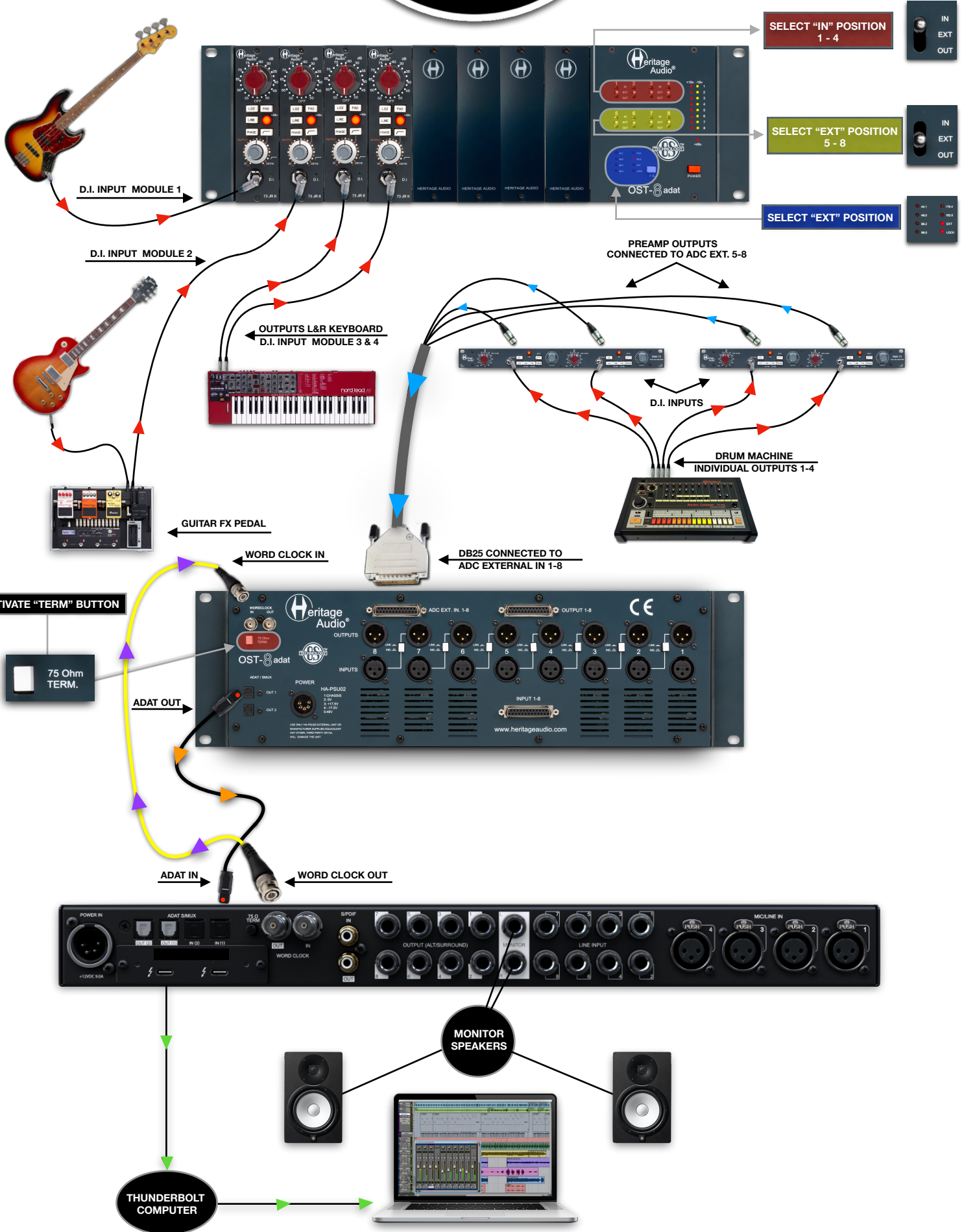
INPUTS 1-8 OST-8 adat



MONITOR SPEAKERS

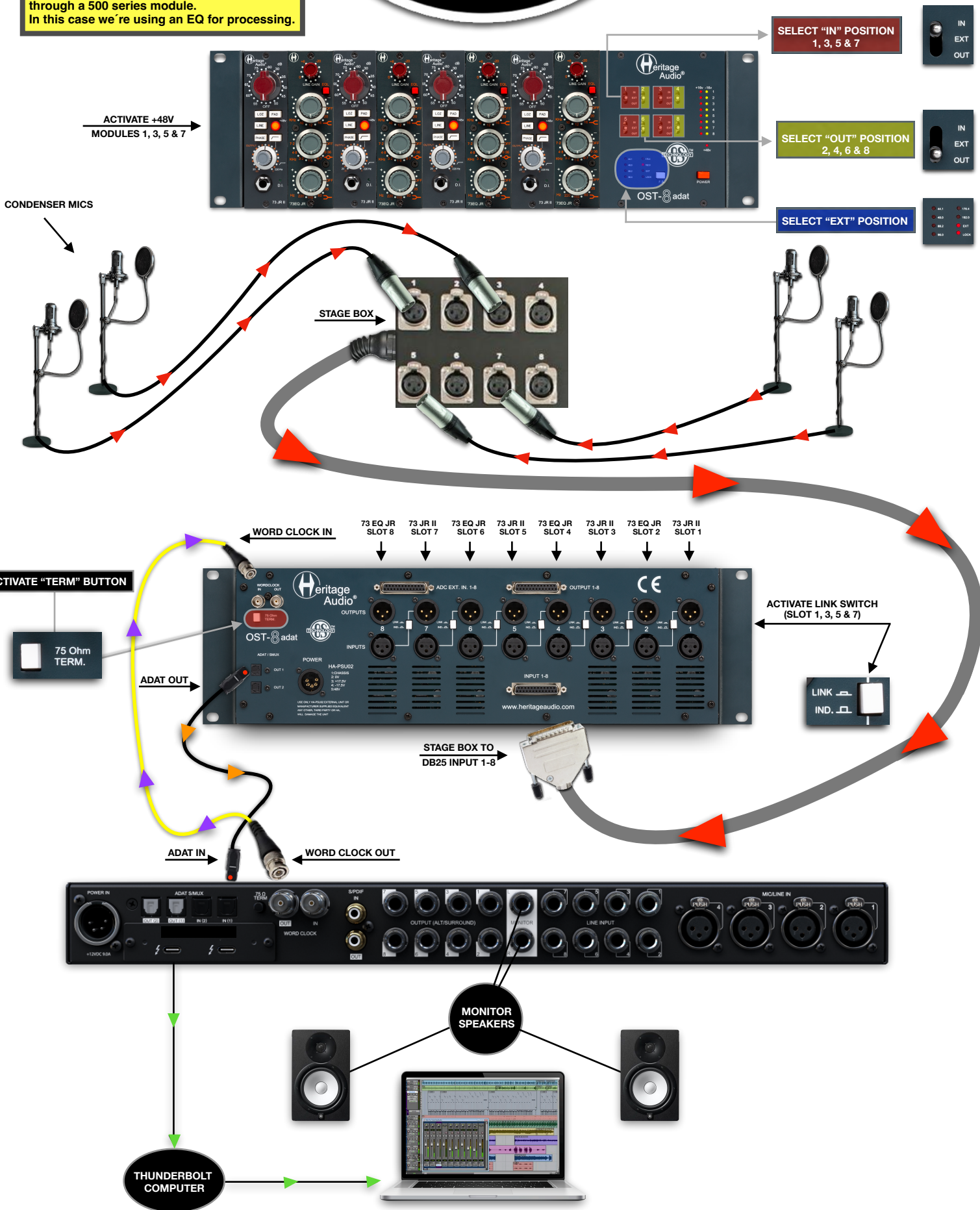
THUNDERBOLT COMPUTER

# MIXED INPUT RECORDING



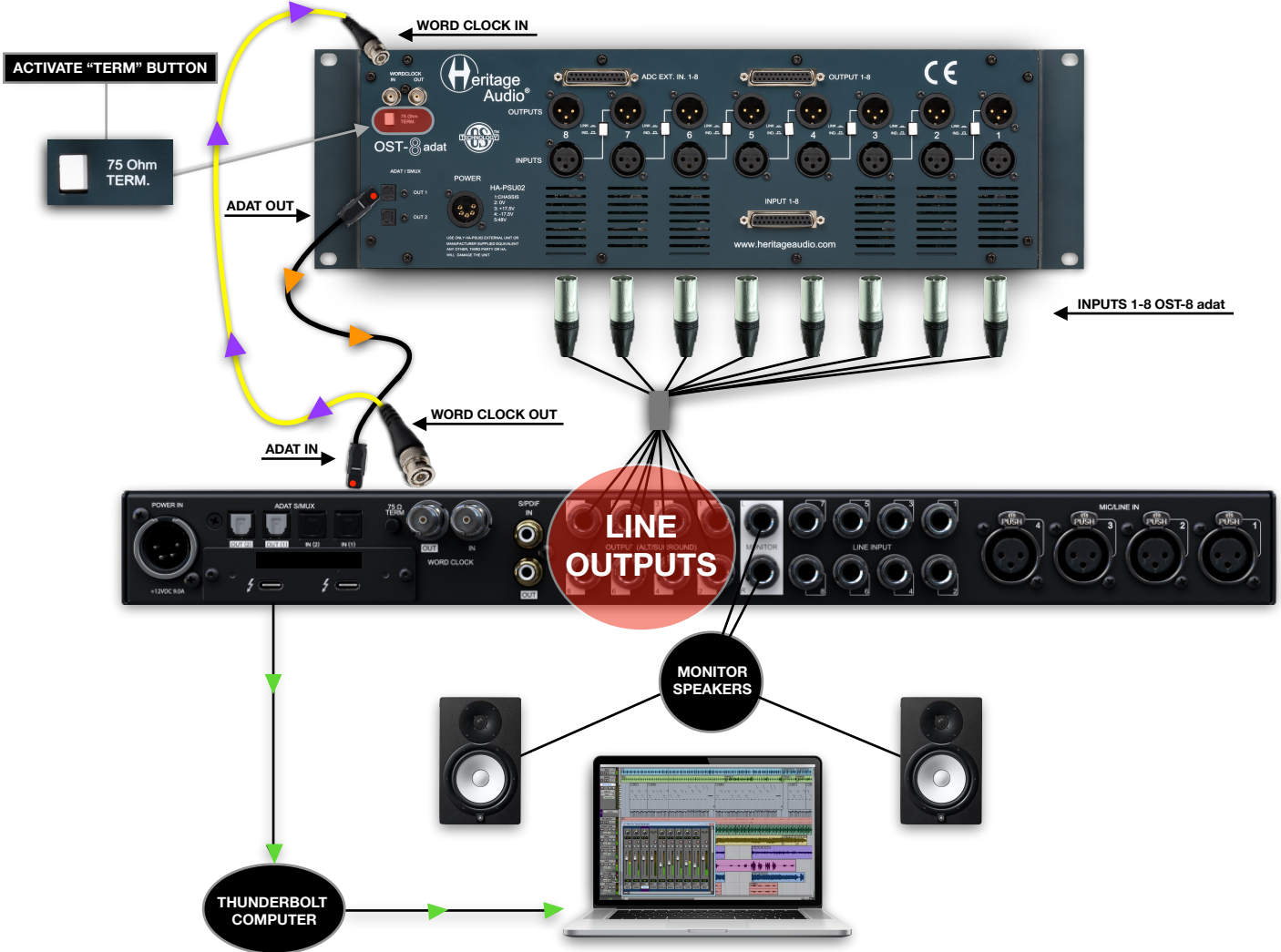
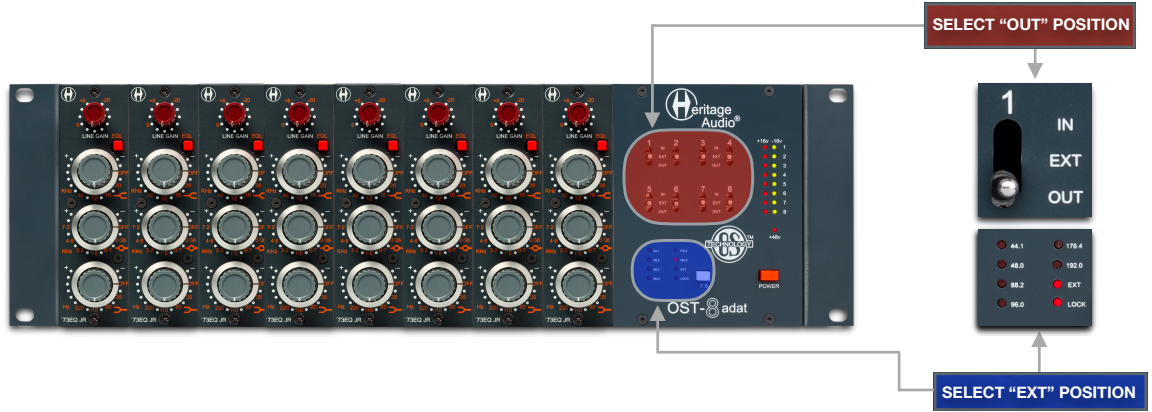
## VOCAL LINKED EQ PROCESSED/UNPROCESSED

This configuration would be used to record two tracks of the same signal, one straight from the Preamp and the other processed through a 500 series module. In this case we're using an EQ for processing.



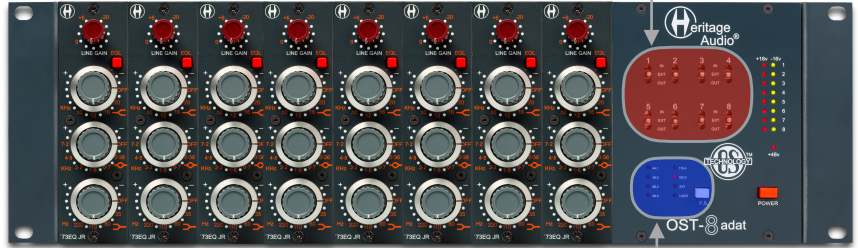
## MIXING INSERT SETUP 1

8 CHANNELS OF EQUALIZATION



# MIXING INSERT SETUP 2

8 CHANNELS OF EQUALIZATION



SELECT "EXT" POSITION



SELECT "EXT" POSITION

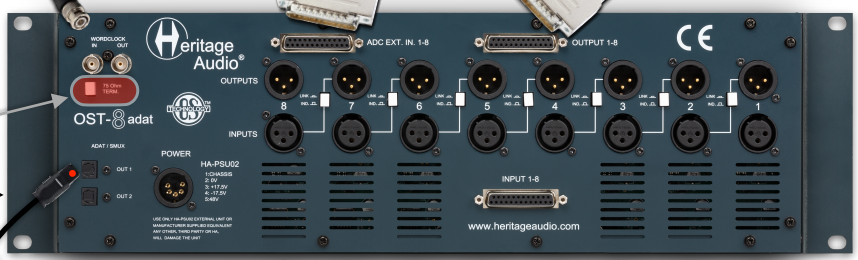
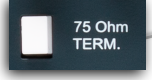
8 CHANNELS OF COMPRESSION



COMPRESSOR INPUTS

COMPRESSOR OUTPUTS

ACTIVATE "TERM" BUTTON



WORD CLOCK IN

ADAT OUT

WORD CLOCK OUT

ADAT IN

INPUTS 1-8 OST-8 adat



LINE OUTPUTS

MONITOR SPEAKERS

THUNDERBOLT COMPUTER



**STAND ALONE CONVERTER**



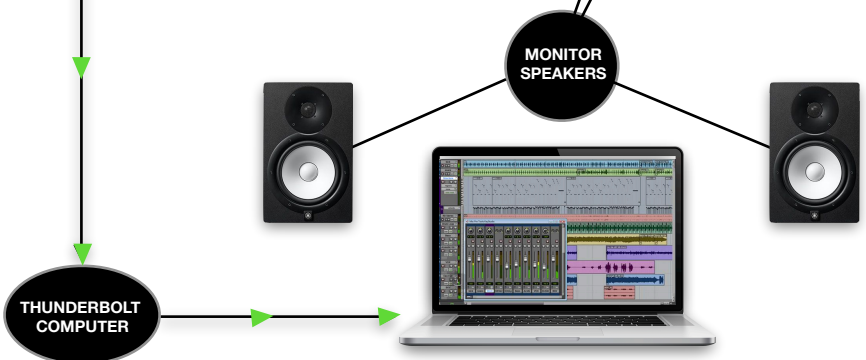
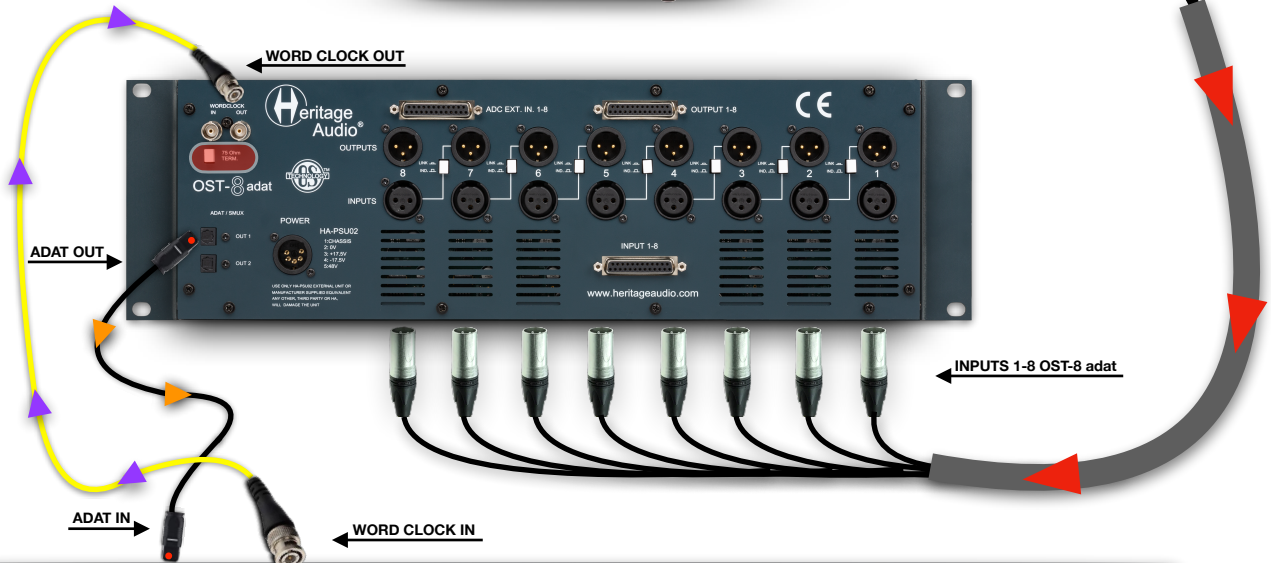
**SELECT "IN" POSITION**

1  
IN  
EXT  
OUT

**SELECT SAMPLE FREQUENCY**

- 44.1
- 48.0
- 88.2
- 96.0
- 176.4
- 192.0
- EXT
- LOCK

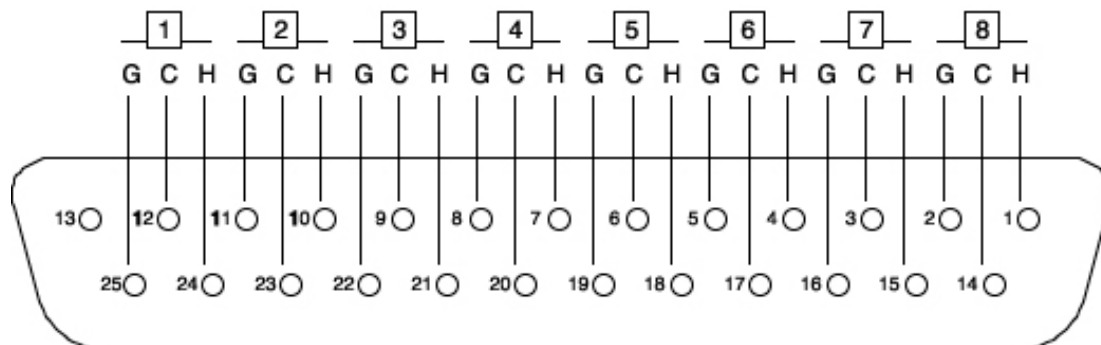
**8 TRACKS FOR CONVERSION**



## WIRING FOR DB25 CONNECTORS

All DB25 multi pin connectors are TASCAM protocol. This same protocol is also used by AVID amongst many others, and is as follows:

### Pin-out for TASCAM DB25 8 Channel Balanced Connector



H = HOT  
C = COLD  
G = GROUND

The list of the DB25 connectors used and their corresponding channels are as follows:

CHANNEL INPUTS 1-8:		CHANNEL OUTPUTS 1-8:		ADC EXTERNAL IN 1-8:	
TASCAM DSUB CHANNEL #	CHANNEL I/P 1-8	TASCAM DSUB CHANNEL #	CHANNEL O/P 1-8	TASCAM DSUB CHANNEL #	ADC RETURNS 1-8
1	INPUT # 1	1	OUTPUT # 1	1	ADC RETURNS # 1
2	INPUT # 2	2	OUTPUT # 2	2	ADC RETURNS # 2
3	INPUT # 3	3	OUTPUT # 3	3	ADC RETURNS # 3
4	INPUT # 4	4	OUTPUT # 4	4	ADC RETURNS # 4
5	INPUT # 5	5	OUTPUT # 5	5	ADC RETURNS # 5
6	INPUT # 6	6	OUTPUT # 6	6	ADC RETURNS # 6
7	INPUT # 7	7	OUTPUT # 7	7	ADC RETURNS # 7
8	INPUT # 8	8	OUTPUT # 8	8	ADC RETURNS # 8

It is worth noting that, in order to avoid ground loops, the DB25 ground connections are lifted on the OST-8 adat side, leaving the ground paths of your DB25 snakes only acting as shields and preventing any current returns.



## ANALOG I/O

- **XLR Inputs & Outputs:** Gold Plated Balanced +4dB Connectors.
- **DB25:** 25 Pin Balanced +4dB Eight Channel Connectors.
- **On Slot Technology**
- **Maximum audio rails current:** 1.8A per rail, or 400mA per rail per slot, whatever is reached first.
- **Maximum phantom power current:** 140mA.
- **Operating voltage:** Universal 100-240 VAC.

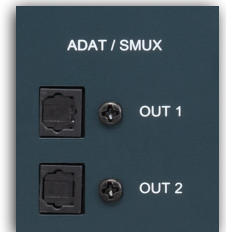
## Dimensions/Weight

- **Dimensions (W x H x L):** 200mm x 134mm (3U) x 482mm
- **Weight:** 4.715 Kg

## DIGITAL CONNECTIONS

### ADAT

- **Connector Type:** Optical TOSLINK JIS F05.
- **Format:** ADAT Digital Lightpipe with S/MUX.
- **Supported Sample rates (kHz):** 44.1, 48, 88.2, 96, 176.4, 192.
- **Channel Assignments @ 44.1 kHz, 48 kHz:** Port 1 = Channels 1 – 8, Port 2 = 1 – 8 (mirrored).
- **Channel Assignments @ 88.2 kHz, 96 kHz:** Port 1 = Channels 1 – 4, Port 2 = Channels 5 – 8.
- **Channel Assignments @ 176.4 kHz, 192 kHz:** Port 1 = Channels 1 – 2, Port 2 = Channels 3 – 4.

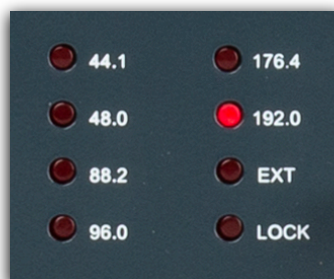


### Word Clock

- **Connector Type:** BNC.
- **Word Clock Input Termination:** 75 Ohms, switchable.



## Synchronization Sources



- **INTERNAL, EXTERNAL (Word Clock)**

# TROUBLE SHOOTING



PROBLEMS	SOLUTIONS
There doesn't seem to be any power feeding the OST-8 adat.	Make sure the HA-PSU02 power supply has been connected.
No audio seems to be getting to the modules.	Double check that you have correctly connected the Inputs and Outputs.
My audio is still not passing through the installed 500 series module.	Make sure you have not accidentally pressed one of the 'LINK' buttons on the back.
There is no converted signal being sent to my DAW.	Check to make sure you have selected the correct input for the Converter (In/Out/Ext/). This needs to be done for each of the 8 channels.
I am having trouble syncing my OST-8 adat to my DAW.	Make sure you have connected the BNC for a WordClock signal from your DAW(MASTER) to your OST-8 adat (SLAVE).
I am still having trouble syncing my OST-8 adat to my DAW.	Make sure you have selected the EXT option with the Sampling Frequency (F.S.) button.
There is still no signal arriving at my DAW from the ADC.	Double check that the appropriate connector (LightPipe) is indeed inserted properly.
There are clicks being generated.	Make sure you have selected the correct Sampling Frequency with the (F.S.) button.
There are still clicks being generated.	Make sure you are using a BNC cable to connect the WordClock signal.
There are unexpected noises and/or jitter being produced.	If your unit is the last in a group of digitally synced units you should press the '75 Ohm Term' button.
I have everything connected correctly but I'm still not receiving any signal in my DAW.	Make sure you have selected the correct INPUT routing in your DAW.

\* For any further doubts or questions please get in contact with us at: [support@heritageaudio.com](mailto:support@heritageaudio.com)

# WARRANTY STATEMENT

## LIMITED 2 YEAR WARRANTY

Heritage Audio **OST-8 adat** is warranted by Heritage Audio SL to be free from defects in materials and workmanship for the period of 2 years to the original purchaser. In the event of such defects, the product will be repaired without charge or, at our option, replaced with a new one if delivered to Heritage Audio prepaid, together with a copy of the sales slip or other proof of purchase date. The warranty excludes problems due to normal wear, abuse, shipping damage or failure to use the product in accordance with the specifications.

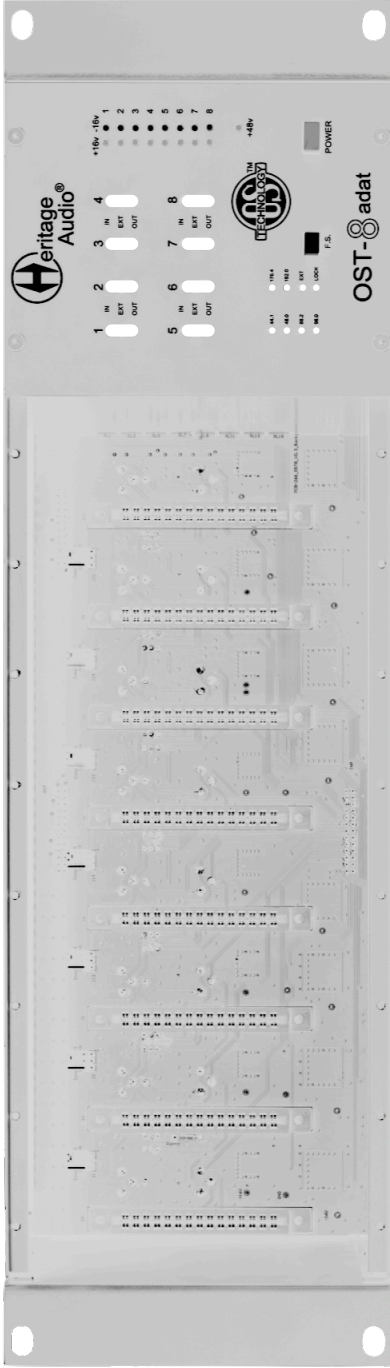
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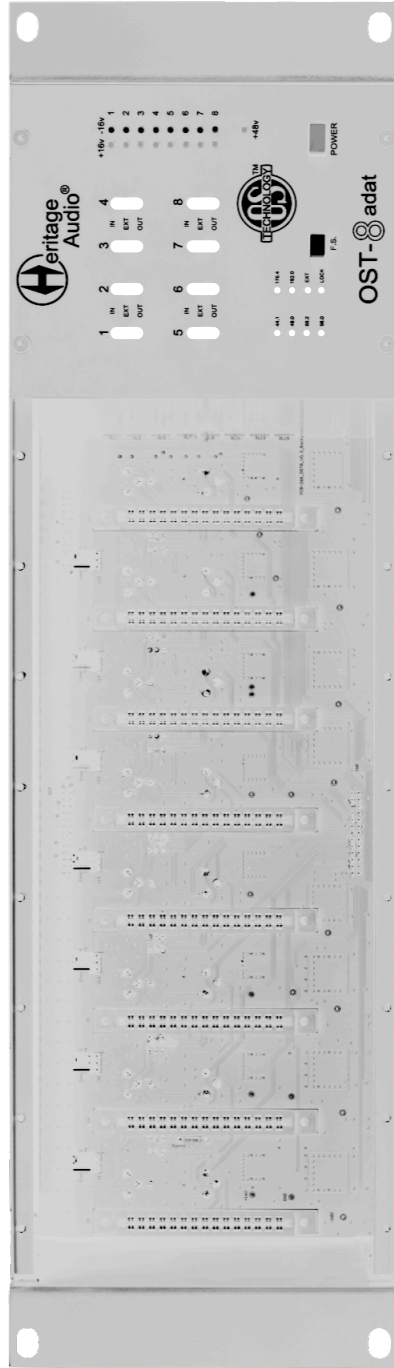
Please visit our website: <https://heritageaudio.net/registration/>



Session / Title: \_\_\_\_\_ Track: \_\_\_\_\_ Connected Equipment: \_\_\_\_\_

Date: \_\_\_\_\_ Instrument: \_\_\_\_\_ Sampling Frequency: \_\_\_\_\_ Internal: \_\_\_\_\_ External: \_\_\_\_\_  SWITCH ON  SWITCH OFF

Notes: \_\_\_\_\_



Session / Title: \_\_\_\_\_ Track: \_\_\_\_\_ Connected Equipment: \_\_\_\_\_

Date: \_\_\_\_\_ Instrument: \_\_\_\_\_ Sampling Frequency: \_\_\_\_\_ Internal: \_\_\_\_\_ External: \_\_\_\_\_  SWITCH ON  SWITCH OFF

Notes: \_\_\_\_\_



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