



MADI-192 MADI Option Card

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Product features, specifications, system requirements, and availability are subject to change without notice.

**Guide Part Number** 9329-65916-00 REV A 12/17

## Safety Compliance

### Safety Statement

This equipment has been tested to comply with USA and Canadian safety certification in accordance with the specifications of UL Standards: UL60065 7th /IEC 60065 7th and Canadian CAN/CSA C22.2 60065:03. Avid Inc., has been authorized to apply the appropriate UL & CUL mark on its compliant equipment.

### Warning



### Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Only perform the services explicitly described in the install and or user manual. For services or procedures not outlined in the install or user manual, speak with authorized service personnel.
- 6) Do not use this equipment near water.
- 7) Clean only with dry cloth.
- 8) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 9) Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.
- 10) 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.
- 11) Protect power cords from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
- 12) Only use attachments/accessories specified by the manufacturer.
- 13) For products that are not rack-mountable: Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.
- 14) Unplug this equipment during lightning storms or when unused for long periods of time.
- 15) Refer all servicing to qualified service personnel. Servicing is required when the equipment 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 equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 16) For products that are a Mains powered device:  
The equipment shall not be exposed to dripping or splashing and no objects filled with liquids (such as vases) shall be placed on the equipment.  
  
Warning! To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- 17) For products containing a lithium battery:  
CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- 18) The power inlet is the main disconnect device and should remain accessible. Disconnect the power cord before servicing the unit.
- 19) The equipment shall be used at a maximum ambient temperature of 40° C.
- 20) Disconnect power from mains before opening the product

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# Chapter 1: Introduction

The MADI-192 MADI Option Card is a high-channel-count MADI audio interface card for E6L engines. Each MADI-192 MADI Option Card provides four MADI BNC connectors (2x coaxial in, and 2x coaxial out). Each pair of coaxial MADI inputs and outputs supports up to 32 channels per I/O pair.

Up to four MADI Option cards can be installed in an E6L engine.

When one or more MADI Option cards are installed in an E6L engine, MADI inputs and outputs appear in the VENUE software Patchbay. MADI inputs and outputs are available for primary system I/O, hardware inserts, and Virtual Soundcheck sources and destinations.

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## MADI Card Capabilities and Features

- Each MADI card supports up to 64 channels of bi-directional audio at 96 kHz.
- Automatic input signal detection, simplifying setup and allowing for redundant connections.
- A one-for-one digital split of all Stage input channels 1–128 without needing to crosspatch or configure the VENUE software Patchbay.
- Each MADI card can provide up to 64 channels of Stage IO, up to 64 channel of Pro Tools Assignable IO, or any combination up to the 64-channel maximum. When a MADI card is not used for Virtual Soundcheck, it can be used for assignable inputs or hardware inserts.
- Supports a redundant output configuration, letting you record to MADI and AVB output destinations simultaneously.

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## MADI Card Components

The MADI Card package includes the following:

- MADI-192 MADI Option Card
- Avid Registration card
- Warranty claims card
- *E6L Option Card Installation Guide*
- *S6L Safety & Regulatory* guide
- *Health and Safety* guide



A two-foot BNC cable is also included, but is not required for installation or any currently supported configurations.

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## System Requirements and Compatibility

Avid can only assure compatibility and provide support for hardware and software it has tested and approved. MADI-192 MADI Option Cards are compatible with E6L Engines running VENUE software 5.3 and higher.

For complete VENUE system requirements and other compatibility information, visit [www.avid.com/compatibility](http://www.avid.com/compatibility).

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## Conventions Used in This Guide

All of our guides use the following conventions to indicate menu choices and key commands:

Convention	Action
Options > System	In the VENUE software, click Options to display the Options tab, then click the System tab.
File > Save	Choose Save from the File menu.
Control+N	Hold down the Control key and press the N key.
Control-click	Hold down the Control key and click the mouse button.
Right-click	Click with the right mouse button.

The names of Commands, Options, and Settings that appear on-screen are in a different font.

The following symbols are used to highlight important information:



*User Tips are helpful hints for getting the most from your system.*



*Important Notices include information that could affect your data or the performance of your system.*



*Shortcuts show you useful keyboard or mouse shortcuts.*



*Cross References point to related sections in this guide and other VENUE guides.*

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## Resources

The Avid website ([www.avid.com](http://www.avid.com)) is your best online source for information to help you get the most out of your Avid system. The following are just a few of the services and features available.

### Account Activation and Product Registration

Activate your product to access downloads in your Avid account (or quickly create an account if you don't have one). Register your purchase online, download software, updates, documentation, and other resources.

<https://www.avid.com/US/account>

### Support and Downloads

Contact Avid Customer Success (technical support); download software updates and the latest online manuals; browse the Compatibility documents for system requirements; search the online Knowledge Base or join the worldwide Avid user community on the User Conference.

<https://www.avid.com/products/venue-s6l-system/learn-and-support>

### Training and Education

Study on your own using courses available online, find out how you can learn in a classroom setting at an Avid-certified training center, or view a webinar. For example, check out the live sound webinars hosted by Robert Scovill:

<http://www.avid.com/live-sound-webinars>

Also check out our Live Sound blogs:

<http://www.avidblogs.com/livesound/>

### Products and Developers

Learn about Avid products; download demo software or learn about our Development Partners and their plug-ins, applications, and hardware.

<https://www.avid.com/Products/index.html>

# Chapter 2: MADI-192 MADI Option Card Installation

Up to four MADI-192 MADI Option Cards can be installed in an E6L engine. MADI-192 MADI Option Cards must only be installed in slots 1–4.

The following instructions show how to do the following to install a MADI-192 MADI Option card into slot 1.

- **Installing a MADI-192 MADI Option Card**
- **Confirming Installation**
- **Removing an Option Card**

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## Required Materials

- MADI-192 MADI Option Card package
- Phillips #1 screwdriver (not included)
- Anti-Static wrist strap (not included)
- Foam or other padded surface to place the card on (not included)

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## Installing a MADI-192 MADI Option Card

Installing an Option card in E6L consists of the following steps:

- Removing the E6L engine core
- Installing the card
- Replacing hardware
- Confirming Installation

## Removing the E6L Engine Core

E6L Option cards are installed in the E6L engine core, which slides out of the E6L chassis.

### To remove the E6L engine core:

- 1 Put on your anti-static wrist band and configure according to its instructions.
- 2 Shut down your system, and disconnect any cables connected to your E6L engine.
- 3 Place your E6L on a table or other flat surface that provides enough room for the E6L engine core to be removed comfortably. Make sure your surface is clear of any debris.



- 4 On the back of the E6L, loosen the four thumbscrews that secure the core to the engine chassis.

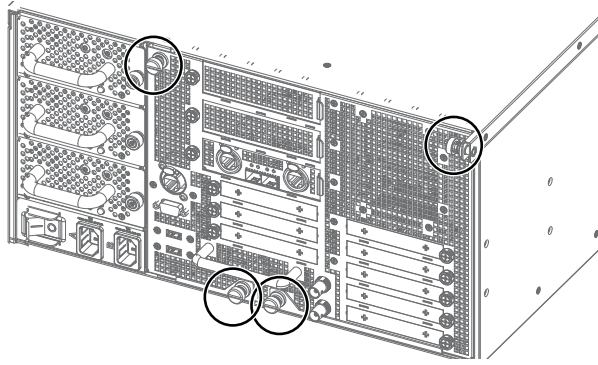


Figure 1. Four thumbscrews on the back of the E6L

- 5 Simultaneously pull the two bottom thumbscrews outward so the latches they are attached to are fully extended, as shown in the figure, below.

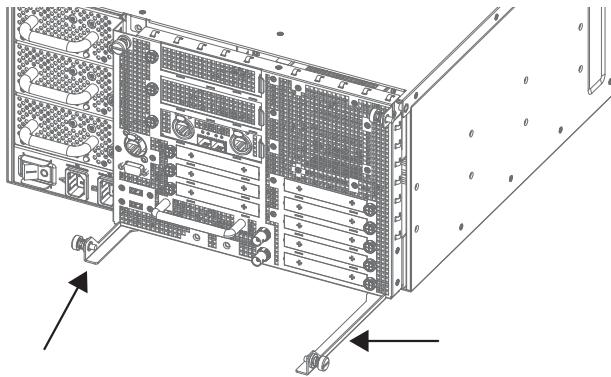


Figure 2. Latches fully extended

- 6 Using the handle, slowly slide the core partially out, locate the interior catch on the right side of the tray, and press it to release the core from the chassis.

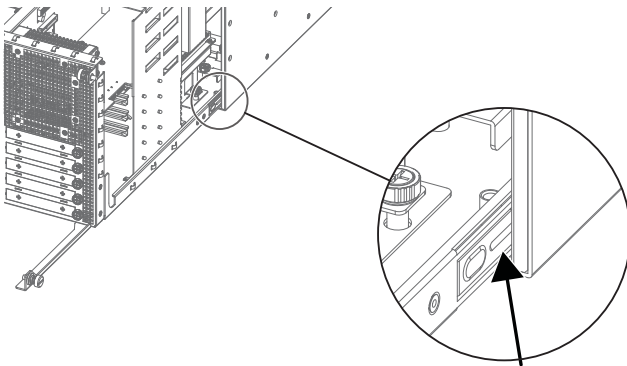


Figure 3. Location of the interior catch

- 7 Slowly slide the core out of the E6L chassis completely and place it on your work surface.

**⚠** The core will not slide out of the E6L chassis until the latches are fully extended and the catch has been released. If you experience any resistance, make sure the latches are fully extended before pulling.

## Installing the Card

The E6L engine core has eight half-length PCIe slots for Option cards.

Slots are numbered, MADI-192 MADI Option Cards must only be installed in slots 1–4. When standing at the back of the E6L engine, slots 1–5 are at the lower right and slots 6–8 are in the middle (below the AVB slots) as shown in the figure, below.

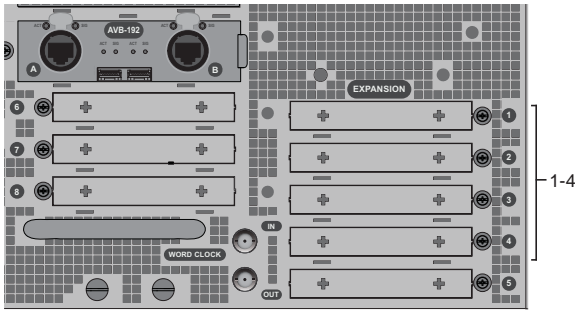


Figure 4. E6L Expansion slots 1–5 (lower right) and 6–8 (upper left)

The following instructions show a MADI-192 MADI Option card being installed into slot 1. Before installing the card you must first remove the card retaining bracket.

### To remove the card retaining bracket and install the card:

- 1 Looking inside the core from the right side, locate the E6L card retaining bracket.
- 2 Locate the thumbscrew that secures the bracket to the bottom of the unit and loosen it completely.



Figure 5. E6L card bracket thumbscrew

- 3 Locate the two Phillips head screws on the top of the bracket, remove them, carefully remove the bracket, and set them all aside.

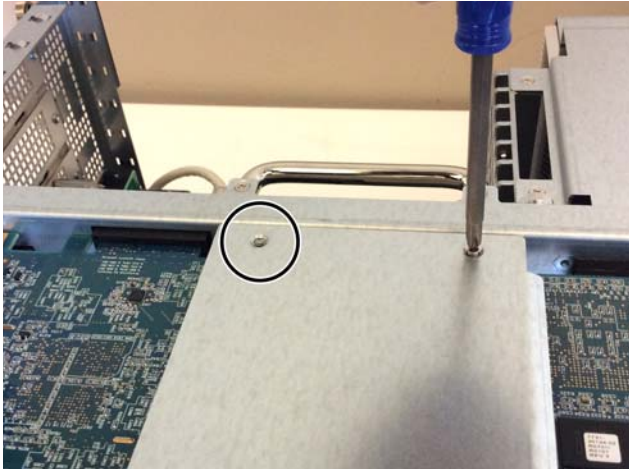


Figure 6. Removing one of two card bracket screws

- 4 Locate the next available Option Card slot below any currently installed Option card(s), and remove the blank faceplate. The faceplate can be recycled or discarded.

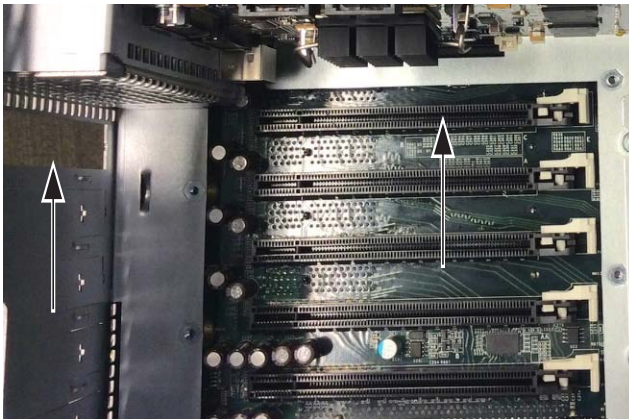


Figure 7. Open Option card slot (right) and blank faceplate removed (left)

- 5 Remove the Option card from its packaging and place it on your padded surface. Be careful to handle the card by its edges only.
- 6 Optional: Disconnect the power cables connected to HDX cards installed above the Option card slots and tuck them out of the way. It is possible to install Option cards without disconnecting these cables, as long as you are careful to not stretch the cables or damage their connectors while installing Option cards.

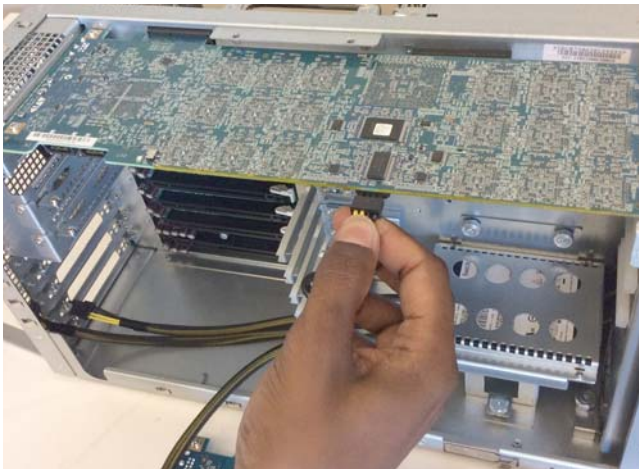


Figure 8. Disconnecting the power cable of an HDX card

7 Remove the Option card guide bracket by doing the following:

- Fully loosen its single thumbscrew (shown below).
- Slide the bracket to the right, towards the front of the E6L, until it clears the two bracket alignment posts.
- Carefully lift the guide bracket out of the core and set it aside.

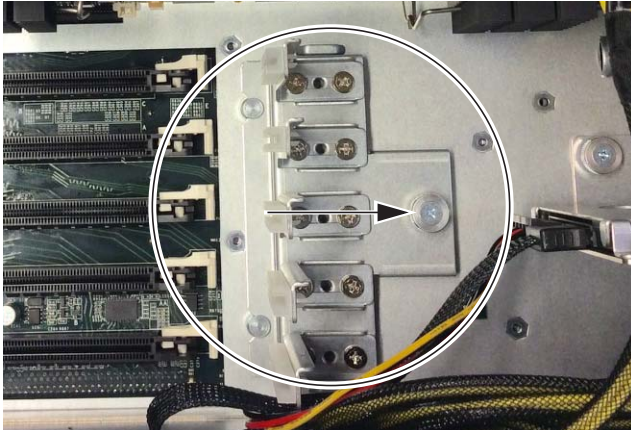


Figure 9. Card guide bracket and its thumbscrew

8 Align the Option card's PCIe connectors with the corresponding PCIe expansion slot, and gently press the card into the PCIe slot.

Make sure the card is fully seated in the PCIe slot and that the white retaining clip clicks into position.

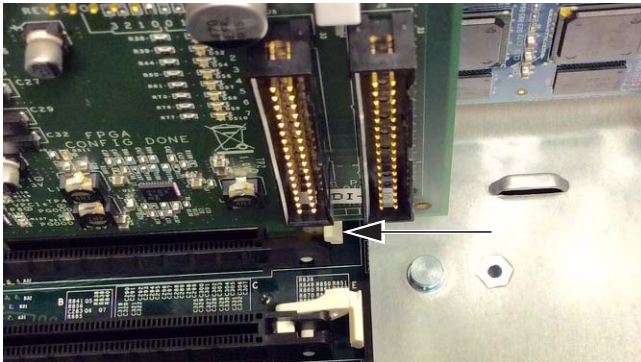


Figure 10. Card retaining clip correctly locked



9 Carefully place the card guide bracket back in the core and do the following:

- Being careful to align the guide bracket with its alignment posts, align its card retaining slots with all Option cards.
- Slide the bracket to the left (towards the back of the E6L), making sure all cards are correctly secured within slots on the guide bracket.

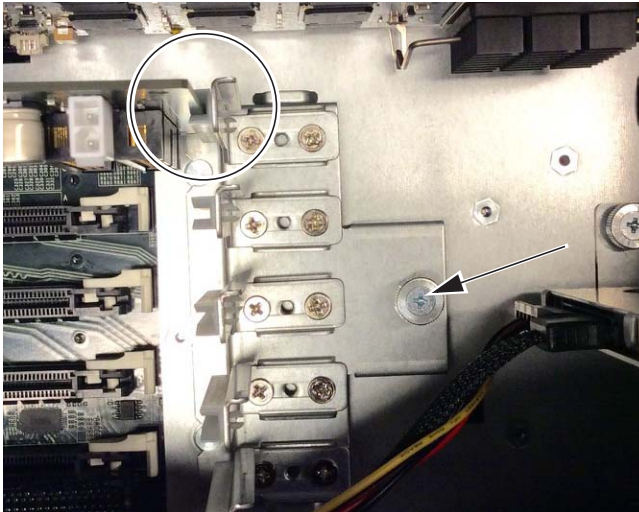


Figure 11. Option card correctly positioned in slot of guide bracket

10 Secure the guide bracket to the core by tightening its thumbscrew.

11 From the back of the core, make sure the faceplate of the Option card is correctly aligned with the open slot cover and then secure the card to the core by tightening the captive thumbscrew.

## Replacing E6L Hardware

After installing the cards, replace the retaining bracket and put the core back into the E6L chassis.

### To replace E6L hardware:

- 1 If you disconnected any power cables to DSP cards, reconnect them now. Similarly, if you disconnected cables to any AVB cards, reconnect them now (make sure to reconnect them to their original ports).
- 2 Carefully place the card retaining bracket back into position, making sure to not disturb the surface of the DSP cards in the process or pinch any cables.
- 3 Tighten the captive thumbscrew securing the bracket to the bottom of the E6L engine core.
- 4 Replace the two screws at the top of the retaining bracket.



*Make sure the bottom edge of the retaining bracket is aligned evenly with the bottom of the core. If the bracket is misaligned it can prevent the core from sliding easily back into the E6L.*

- 5 Slide the core back into the E6L chassis, making sure the connectors face outward.  
When the core is fully seated into the chassis, the two latches at the bottom of the chassis should fully collapse.
- 6 Tighten the four thumbscrews to secure the core to the chassis.

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## Confirming Installation

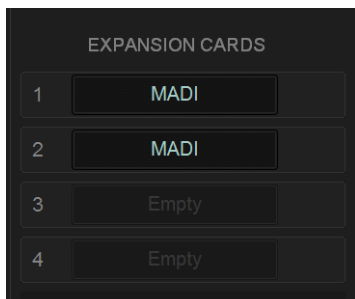
After installing Option cards, confirm that you successfully installed them.

### To confirm installation:

- 1 Connect power to the E6L, and connect an audio network cable from your S6L control surface to E6L.
- 2 Power on your S6L and E6L.

**⚠** Your S6L system might indicate that a firmware update of your newly-installed card(s) is required. If so, the system will not boot until firmware is updated (see the *VENUE S6L Installation Guide.pdf* for instructions).

- 3 On the external VENUE software screen, go to the Options > Devices page.
- 4 In the EXPANSION CARDS section, the newly installed card(s) should appear in their corresponding slot(s).



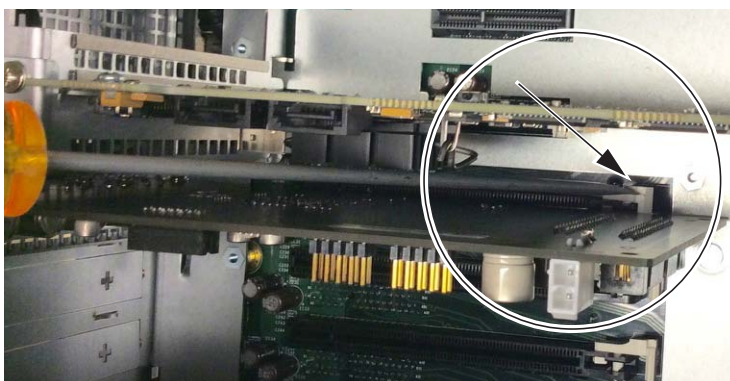
*Expansion Cards section of Options > Devices, showing two MADI-192 MADI Option Cards*

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## Removing an Option Card

If you ever need to remove an Option card, do the following:

- Remove the E6L Engine core.
- Remove the card retaining bracket.
- Remove the card guide bracket.
- Completely loosen the captive thumbscrew that secures the faceplate of the card to the back panel of the E6L core.
- To remove an Option card, release its retaining clip using a long, flat head screwdriver (not included) as shown below, pull the card out of its PCIe slot and then carefully lift the card out of the core.



*Figure 12. Releasing a card retaining clip*

# Chapter 3: Connecting and Using the MADI-192 MADI Option Card

After **Installing a MADI-192 MADI Option Card**, you can make audio connections between your VENUE system and your MADI device.

You must establish proper synchronization between your VENUE system and any connected MADI devices. You may or may not need to make additional connections. See **Synchronizing MADI Devices**.

In VENUE Standalone software version 5.3 or higher, you can add MADI cards to the configuration in the EXPANSION CARDS section of the Options > Devices page. You can then view MADI Device information and settings, but you cannot change settings.

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## Making Audio Connections

This section shows how to make the audio connections between your VENUE S6L system and your MADI device.

### Sending Audio

The MADI-192 MADI Option Card provides two coaxial outputs. Both coaxial outputs of the MADI card are active at all times.

**To connect a MADI device to your VENUE system:**

- 1 Power up your VENUE system.
- 2 Connect to your MADI device using the coaxial MADI Output connectors of the MADI card.

### Receiving Audio

When your VENUE system is receiving audio from a MADI device, both coaxial inputs on the MADI-192 MADI Option Card are available at all times.

**To connect a MADI device to your VENUE system:**

- 1 Power up your VENUE system.
- 2 Connect to your MADI device using the coaxial MADI Input connectors of the MADI card.

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## Synchronizing MADI Devices

Whenever two digital audio devices are connected together, care must be taken to ensure they are properly synchronized or the audio will suffer from clicks, pops and distortion (even if the devices are operating at the same sample rate).

This synchronization can be achieved by using dedicated, “distributed” word clock connections from a master clock source to each device.

**⚠** Do not “daisy-chain” word clock among multiple devices. Use a distributed word clock configuration.

This section shows the following three example configurations using a dedicated word clock connection between devices:

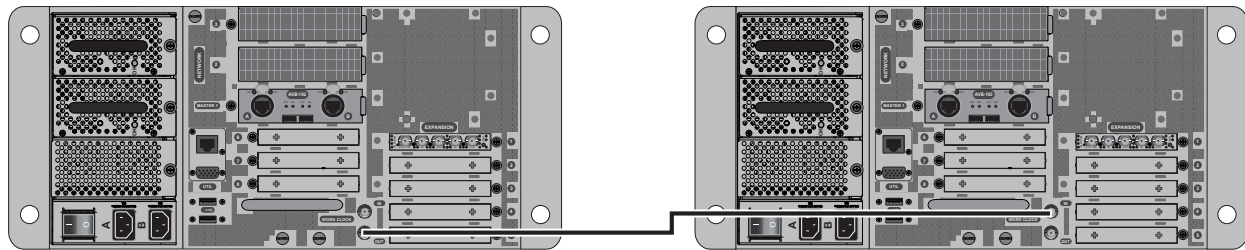
- **Using Word Clock to Synchronize Two VENUE Systems**
- **Using Word Clock to Synchronize a VENUE S6L System and Another MADI Device**
- **Using a Distributed External Master Clock to Synchronize Devices**

Not all devices support all of these synchronization methods, so you should consult the user guide for your MADI device in order to determine its capabilities.

### Using Word Clock to Synchronize Two VENUE Systems

When using MADI to or from two VENUE S6L systems that are *not* configured for I/O Sharing, one of the systems must provide word clock to the other system. Once connected, the system receiving word clock detects it automatically.

**⚠** Never connect word clock from one engine to the other when sharing I/O. In addition, if using an external word clock to distribute master clock, always make sure that only one E6L engine's word clock input is connected to that external, distributed word clock source.



Connecting Word Clock between two independent (not I/O Sharing) VENUE S6L systems (E6L 1 Word Clock Out, at left, to E6L 2 Word Clock In, at right)

#### To synchronize two VENUE systems:

- Connect the coaxial cable from the **WORD CLOCK OUT** port on one of the VENUE S6L systems to the **WORD CLOCK IN** port on the other VENUE system.

The VENUE system receiving word clock auto-detects word clock and displays “EXT” in the Mode box on-screen.

### Synchronization in Shared I/O Configurations

E6Ls in shared I/O configurations can send and receive Word Clock. However, only one E6L engine should ever be connected to an external word clock device.

I/O sharing configurations should be thought of as a single “system” in terms of clock. When you connect two E6L engines together (where two S6L systems are sharing one or more Stage Racks in a shared I/O configuration), only one of the E6L engines should ever be connected to an external word clock device. This E6L engine then becomes the Master clock for the entire dual-system configuration and distributes clock to all other S6L devices. If no external word clock device is connected, the E6L that comes online first becomes the Master clock for the entire system.

**⚠** Never connect word clock from one engine to the other when sharing I/O, and always make sure that only one E6L engine's word clock input is connected if using an external word clock when sharing I/O.



## Using Word Clock to Synchronize a VENUE S6L System and Another MADI Device

When using MADI to connect your VENUE S6L system to a single external MADI device such as a digital mixing console, the VENUE system can receive or provide word clock.

### To synchronize a VENUE S6L system to a single external MADI device using word clock:


- Connect a coaxial cable from the word clock out of the external MADI device to the **WORD CLOCK IN** port on your E6L engine.

The external MADI device must be set to send 96 kHz word clock rate to your VENUE S6L system. The VENUE system auto-detects external word clock and displays EXT in the Mode box on-screen.

### To synchronize a single external MADI device to a VENUE S6L system:

- Connect a coaxial cable from the **WORD CLOCK OUT** port on your E6L engine to the word clock in port on your external MADI device.

The external MADI device may need to be configured to receive the 96 kHz word clock rate provided by the VENUE S6L system. Check the device's documentation.

 *At the time of this writing, the WC Out port on the MADI-192 MADI Option Card is not supported and should not be used.*


## Using a Distributed External Master Clock to Synchronize Devices

When using MADI to connect your VENUE system to an external MADI device, use an external master clock to distribute a common word clock to each device (a dedicated word clock connection from the master clock source to the VENUE system, a separate dedicated word clock connection from the master clock source to the external MADI device, and so on). All devices except the VENUE system must be set to a 96 kHz word clock rate.

You might have to configure the external MADI device to receive word clock. Check the device's documentation.

### Synchronization in Shared I/O Configurations

E6Ls in shared I/O configurations can send and receive Word Clock. However, only one E6L engine should ever be connected to an external word clock device. I/O sharing configurations should be thought of as a single "system" in terms of clock. When you connect two E6L engines together (where two S6L systems are sharing one or more Stage Racks in a shared I/O configuration), only one of the E6L engines should ever be connected to an external word clock device. This E6L engine then becomes the Master clock for the entire dual-system configuration and distributes clock to all other S6L devices. If no external word clock device is connected, the E6L that comes online first becomes the Master clock for the entire system.

 *Never connect word clock from one engine to the other when sharing I/O, and always make sure that only one E6L engine's word clock input is connected if using an external word clock when sharing I/O.*

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## Using MADI

You can use the MADI-192 MADI Option card with your VENUE S6L system in the following ways:

### Assignable Mode

In this mode, all signal paths of the MADI-192 card are available in the VENUE Patchbay, and can be patched freely. The MADI card can also be used for Hardware Inserts via MADI.

### Pro Tools Input Mode

In this mode, Pro Tools is the main source of audio signals for VENUE and can be used in either Input or Virtual Soundcheck mode. Either mode can be configured to receive audio via AVB, or via MADI.

**Input Mode** In this mode, audio from your AVB or MADI device is the main audio source for your VENUE system. Stage inputs on your VENUE system are replaced with inputs from Pro Tools via AVB or MADI, or from an external MADI device such as another VENUE system or another digital mixing console. Input channel gain and other PRE parameters such HPFs can be stored in Snapshots.

**Virtual Soundcheck Mode** In this mode, pre-recorded audio from Pro Tools via AVB or via an external MADI device is the main source of audio for VENUE. Stage inputs on your VENUE system are replaced with inputs from your external MADI device. Changes made in Virtual Soundcheck mode, including Snapshot creation and modification, carry over when switching back to Stage mode. Input channel gain changes made while in Virtual Soundcheck mode can be applied to Stage input channels when switching back to Stage mode. On systems with three or more MADI Option cards, only MADI-192 MADI Option Cards installed in slots 1 and 2 are available for Virtual Soundcheck.

### Redundant Outputs

You can install multiple MADI cards and operate them in a redundant output configuration. For redundant recording, you can also enable both AVB and MADI as Virtual Soundcheck Destinations.

### Assignable I/O

For any system input channels that have Stage inputs assigned as their sources, assignable recording outputs are available, up to the maximum number of available Pro Tools I/O channels. Assignable outputs can be used to send the Main L/R mix, submixes from sources such as Matrix and Groups, the Direct Outs of S6L system I/O channels, and audience mics to Pro Tools.

For any system input channels not assigned Stage inputs as their sources, assignable Pro Tools inputs are available, up to the maximum number of available Pro Tools I/O channels. Assignable inputs can be used to monitor your Pro Tools recording on your S6L system, or to incorporate pre-recorded audio tracks into your live mix.



*For more information about gain, snapshots, and other aspects of Virtual Soundcheck, see the VENUE S6L System Guide.pdf.*

### Hardware Inserts

Any MADI I/O on MADI Option cards in slots 1 and 2 become unavailable as hardware inserts while MADI is selected as a Virtual Soundcheck Source or Destination.

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## Enabling Virtual Soundcheck Recording

You can enable direct digital splits by configuring the System Outputs setting in Options > System. By default AVB is the designated system output destination. You can change this to MADI, or BOTH, to designate the MADI card as a Virtual Soundcheck destination. The Pro Tools tab of the VENUE Patchbay feeds the cards. Up to two MADI cards can be used for Virtual Soundcheck.

The pickoff point for each Stage input split is post-analog input gain, but pre-digital trim and channel processing, including the channel HPF. Thus, the gain for any input channel sent to Pro Tools is dependent on the S6L system input gain setting for that Stage input channel.

Recordings of direct digital splits form the basis of the Virtual Soundcheck workflow, and are also useful for capturing unprocessed audio files of your Stage inputs for later mixdown and editing.

### To enable Stage inputs:

- 1 Make sure the Stage inputs you are using are patched to the desired S6L system input channels in the Patchbay.
- 2 Put your S6L system into Config mode.
- 3 On the external VENUE software screen, go to the Options > System tab.
- 4 In the System Inputs section, make sure Stage is selected. If Stage is not selected, do the following:
  - Select Edit.
  - Select Stage.
  - Select Apply.

Signals from any Stage inputs assigned to S6L system input channels are sent to the connected Pro Tools computer as direct digital splits. The corresponding channels under the Pro Tools tab in the Patchbay are highlighted in purple to indicate they are in use as digital split outputs and as Virtual Soundcheck inputs.

### To configure Virtual Soundcheck Outputs:

- 1 Put your S6L system into Config mode.
- 2 On the external VENUE software screen, go to the Options > System tab.
- 3 Select Edit.
- 4 In the System Outputs section, choose one of the following from the Virtual Soundcheck Destination selector:

**AVB** Splits are sent to Pro Tools via AVB.

**MADI** Splits are sent to Pro Tools via the outputs on the MADI card.

**Both** Splits are sent through both AVB and MADI.

- 5 Select Apply to apply your settings.



*If you want to use VENUE Link for enhanced Virtual Soundcheck, it requires a dedicated Ethernet connection from port **C** on the S6L control surface to the Pro Tools computer. For more information, see the VENUE S6L System Guide.pdf*

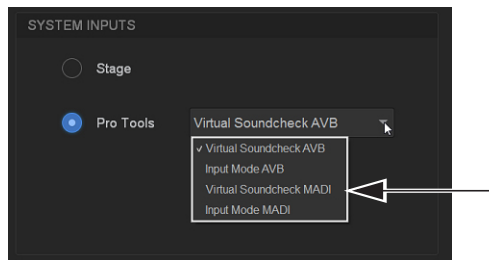
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## Performing a Virtual Soundcheck

In Virtual Soundcheck mode, audio from your external MADI devices can replace the corresponding Stage inputs one-for-one, and appear in place of those Stage Inputs in the VENUE software Patchbay. All changes (such as channel assignments, and input and output processing) are carried over when you switch to Virtual Soundcheck mode, and the digital portion of the gain for each channel is preserved and applied to the incoming MADI signal. This results in the same apparent levels for both the MADI inputs and the Stage inputs.

### To perform a Virtual Soundcheck using MADI:

- 1 Do one of the following to put your system into Config Mode:
  - Press the **Config** switch on the console.
  - Double-click the Mode box in the bottom-right corner of the screen.
- 2 Go to the Options > System tab to access the System Configuration page.
- 3 Click Edit.
- 4 In the System Inputs section of the System Configuration page, click to enable Pro Tools.
- 5 Choose Virtual Soundcheck MADI from the Pro Tools selector.



*Virtual Soundcheck MADI option in the Pro Tools sector (Options > System)*

- 6 Click Apply.

All S6L system input channels with Stage inputs assigned to them are replaced with their corresponding Virtual Soundcheck inputs from Pro Tools. Pro Tools icons appear in the Patchbay > Inputs tab patching grid for all assigned Stage inputs, indicating that input sources for the affected input channels are now Virtual Soundcheck inputs from Pro Tools. Any MADI IO designated as hardware inserts become unavailable as inserts (their patch assignments are retained).

If you change input routing when MADI inputs are active, those changes remain when you switch back to Stage input mode.



*For more information about gain changes, snapshots, and other aspects of Virtual Soundcheck, see the Pro Tools Recording and Playback section of the VENUE S6L System Guide.pdf.*

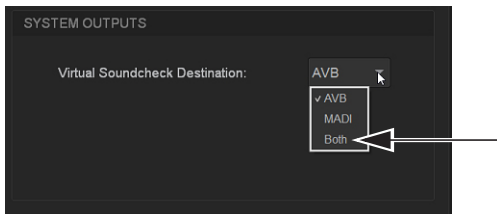
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## Enabling Redundant Outputs

For redundant recording, you can enable both AVB and MADI as Virtual Soundcheck Destinations.

### To enable redundant outputs:

- 1 Put your S6L system into Config mode.
- 2 On the external VENUE software screen, go to the Options > System tab.
- 3 Select Edit.
- 4 In the System Outputs section, choose Both from the Virtual Soundcheck Destination selector:



*Enabling redundant outputs (Both) for the Virtual Soundcheck Destination (Options > System)*

- 5 Select Apply to apply your settings.

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## Using MADI for Hardware Inserts

MADI IO can be used as hardware inserts, just like other supported system IO. Hardware inserts can be used for external processing on individual input channels, Mains, Groups, Auxes, and Matrixes. To use external hardware as inserts, you must do the following:

- Connect external hardware
- Assign hardware inserts to channels
- Activate the insert
- Set the hardware insert location

For instructions, see the *VENUE S6L System Guide*, and be sure to note the following about MADI availability with Virtual Soundcheck mode:

- Whenever a MADI card is enabled as a Virtual Soundcheck destination, its IO becomes unavailable for use as hardware inserts. Assignments are retained (but disabled) when Virtual Soundcheck mode is enabled, and are restored when exiting Virtual Soundcheck mode.

# Appendix A: Compliance Information

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## Environmental Compliance

### Disposal of Waste Equipment by Users in the European Union



This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

### Proposition 65 Warning

**⚠** *This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.*

### Perchlorate Notice

This product may contain a lithium coin battery. The State of California requires the following disclosure statement: "Perchlorate Material – special handling may apply, See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)."

### Recycling Notice



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## EMC (Electromagnetic Compliance)

This model complies with the following standards regulating interference and EMC:

- FCC Part 15 Class B
- EN 55022 Class B
- EN 55024 Class B
- AS/NZS CISPR 22 Class B
- CISPR 22 Class B

## FCC Compliance for United States

### Radio and Television Interference

#### Communication Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any modifications to the unit, unless expressly approved by Avid, could void the user's authority to operate the equipment.

### Australian Compliance



### Canadian Compliance

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.

### CE Compliance

#### (EMC, Safety, and ROHS)



Avid is authorized to apply the CE (Conformite Européenne) mark on this compliant equipment thereby declaring conformity to EMC Directive 2004/108/EC, Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EC..

### Korean EMC Compliance

이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.







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