



XMON EUCON™ Guide

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This product may include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org>).

This product may be protected by one or more U.S. and non-U.S. patents. Details are available at www.avid.com/patents.

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

Safety Compliance

Safety Statement

This equipment has been tested to comply with USA and Canadian safety certification in accordance with the specifications of UL 60065, 7th Ed., 2007-12-11; CAN/CSA C22.2 No. 60065-03, 1st Ed., 2006-04 + A1:2006; EN 60065:2002 + A1:2006 + A11:2008 + A2:2010 + A12:2011; IEC 60065:2001 + A1:2005 + A2:2010. Avid Technology Inc., has been authorized to apply the appropriate NRTL 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) Do not use this equipment 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 equipment (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 power cords from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) 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.

13) Unplug this equipment during lightning storms or when unused for long periods of time.

14) 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.

15) 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.

16) For products containing a lithium battery:

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

17) For products with a power switch:

The main power switch is located on the back panel of the D-Control; it should remain accessible after installation.

18) The equipment shall be used at a maximum ambient temperature of 40° C.

Do not attempt to service the equipment. There are no user-serviceable parts inside. Please refer all servicing to authorized Avid personnel.

WARNING

To reduce the risk of electric shock, do not expose this equipment to rain or moisture.

Any attempt to service the equipment will expose you to a risk of shock and will void the manufacturer's warranty.

SPECIAL WARNING REGARDING VENTILATION:

Do not install XMON anywhere or in any way that blocks free air flow at any time around the back panel of the unit.

SPECIAL WARNING REGARDING AMBIENT TEMPERATURE:

Before powering on the unit, be sure to allow it to reach room temperature. The unit includes some components that are sensitive to cold temperatures, so it is recommended that you unpack the unit and allow it to acclimate before turning it on for the first time.

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Chapter 1: Introduction to the XMON EUCON Software Application

The XMON EUCON™ Software Application is a simple EUCON-enabled utility that lets you control the XMON hardware from a Pro Tools® | S6. Once configured, the S6 Control Room and Monitor section can be locked to XMON, letting you continue to control XMON monitoring from the control surface while switching to other software applications and workstations.

This guide provides installation and connection instructions.

For operational instructions and examples of controlling XMON from S6 see the most recent edition of the *S6 Guide.pdf*. You can download this and all other S6 user guides from the S6 Support article on our Knowledge Base:

[Avid S6 Support](#)

System Requirements and Compatibility

Avid can only assure compatibility and provide support for hardware and software it has tested and approved.

For downloads and other Avid resources, visit:

www.avid.com/compatibility

Talkback Requirements

If you plan to use Talkback 1 via the XMON EUCON Control Cable Breakout Adapter, a mic preamp (not included) is required.

What's Included

The following items are included with your XMON monitoring solution package:

- XMON unit
- XMON power connector
- Control Cable Breakout Adapter (for use with XMON EUCON control)
- USB-to-MIDI adapter

XMON Connectivity Kit

If you already own an XMON, the XMON Connectivity Kit lets you use the unit with S6. The kit includes the Control Cable Breakout Adapter, USB-to-MIDI adapter, and XMON EUCON software installer.

About This Guide

Conventions Used in This Guide

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

Convention	Action
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 names of hardware switches on S6, System 5-MC and MC Pro hardware are in bold (such as **SEL**).

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 Avid guides.*

Resources

The Avid website (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, Product Registration, and License Activation

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. Activate your software license

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

Support and Downloads

Contact Avid Customer Care (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/learn-and-support>

For S6 support, trouble-shooting, and downloads, visit:

<http://avid.force.com/pkb/articles/faq/Avid-S6-Support>

Training and Education

Study on your own using courses available online or find out how you can learn in a classroom setting at an Avid-certified training center.

For example, check out the series of [Get Started Fast with S6](#) video tutorials, available on YouTube:

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>

News and Events

Get the latest news from Avid or sign up for an S6 demo.

XMON Interface

XMON Front Panel



Figure 1. XMON front panel

Power Switch

The Power switch applies power to the XMON Interface.

Mute Indicator

The Mute indicator shows the mute status of XMON.

MIDI Receive Indicator

The MIDI Receive indicator shows MIDI activity between XMON and the control surface.

Mute

The Mute switch mutes all XMON outputs. It is not possible to unmute XMON with this switch. The XMON mute state can only be cleared from the Monitor section of your control surface.

XMON Back Panel

The back panel of the XMON interface includes connectors for all external analog audio inputs and outputs, power, and control (15-pin D-Sub).

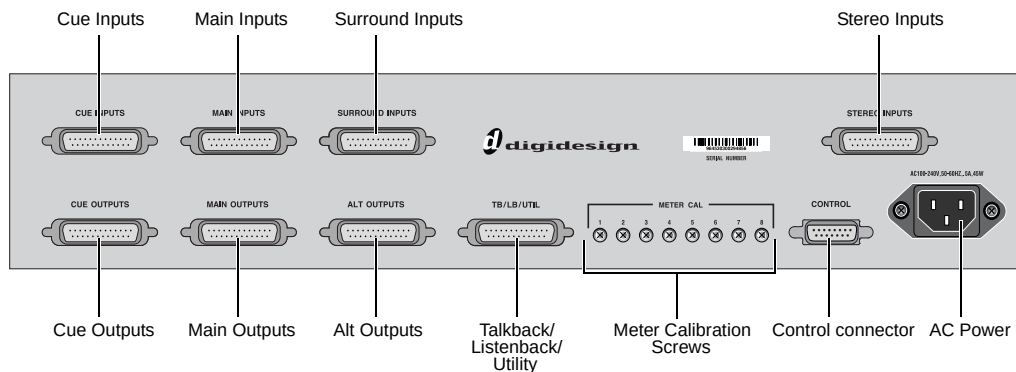


Figure 2. XMON back panel

Chapter 2: Installing XMON

This chapter includes the following:

- [Making Audio Connections](#)
- [Installing the USB-to-MIDI Adapter](#)
- [Connecting the Control Cable Breakout Adapter](#)
- [Connecting a Talkback Microphone](#)
- [Installing and Configuring the XMON EUCON Software Application](#)

Making Audio Connections

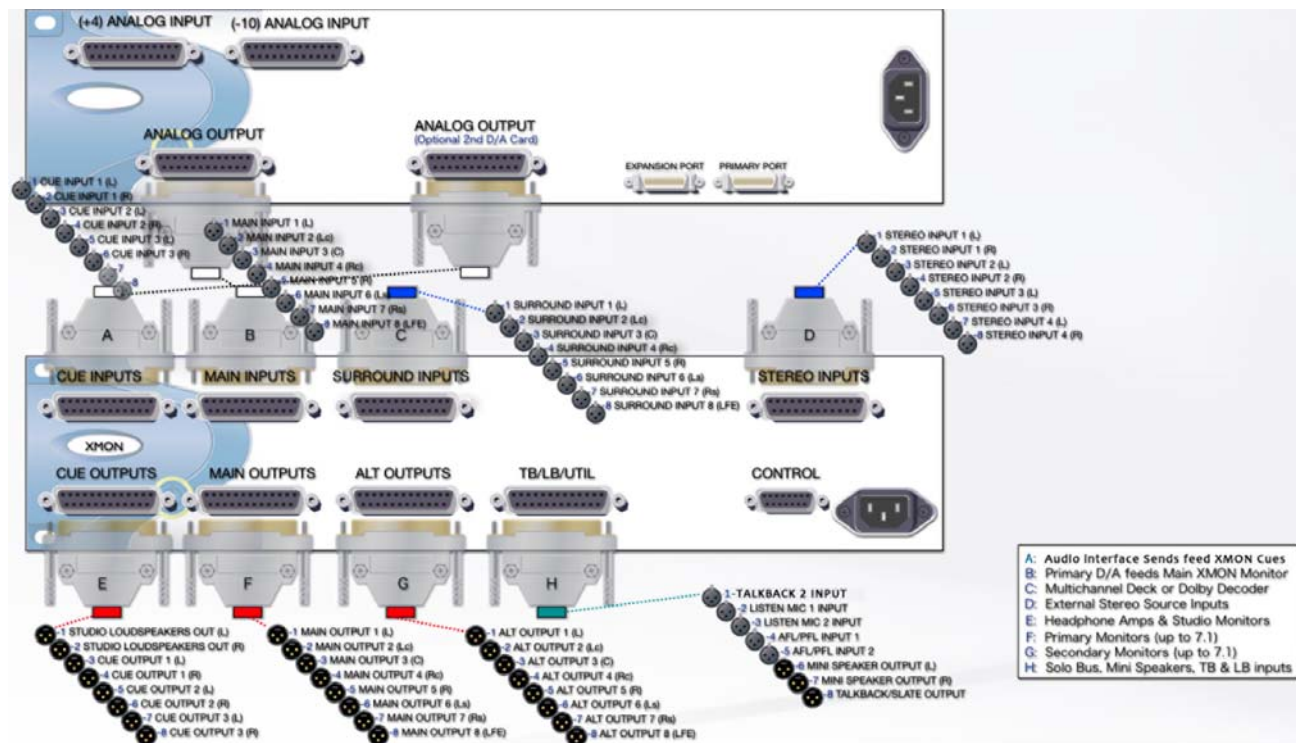


Figure 3. XMON audio connections

Monitoring is based on the XMON analog interface, which is remotely controlled from the XMON EUCON Software Application and the S6 Control Room section. All supported audio inputs and outputs for control room monitoring and studio communication are connected to the XMON interface.

All audio connections are made with standard DB-25 connectors. See [Appendix A, “DB-25 Connectors”](#) for wiring convention and pinout tables.

💡 XMON provides 18V phantom power for the Talkback 2 Mic that connects via the DB-25 connector. The Talkback 1 mic, which is carried on the 15-pin Control Cable, requires an external mic preamp (not included) with phantom power supply.

XMON-to-Pro Tools | HD Audio Wiring Diagram

The following diagram shows basic XMON connections for a Pro Tools | HD system with an HD I/O that has 16 analog outputs.

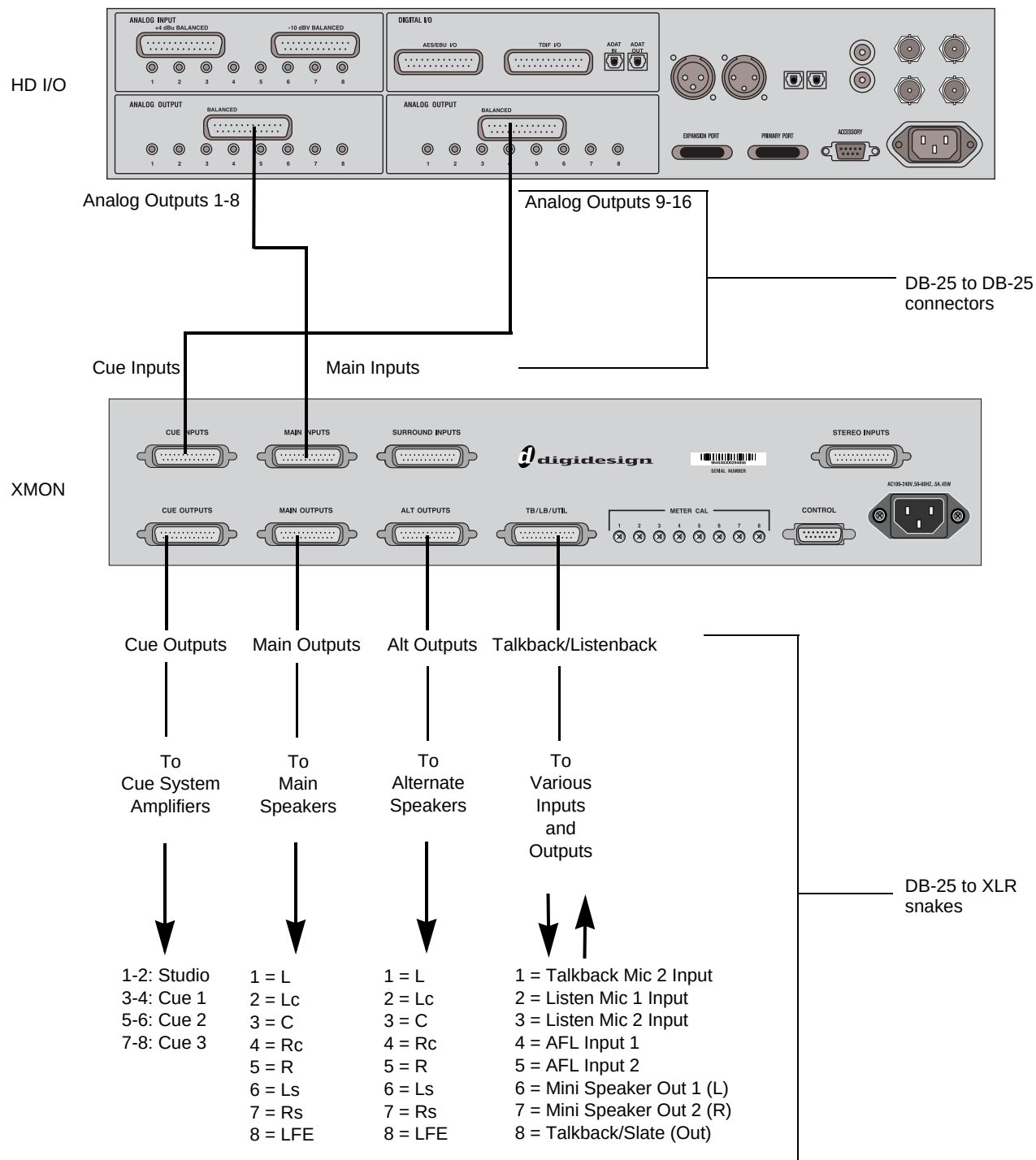


Figure 4. Wiring diagram for HD I/O and XMON

⚡ Not all channels shown are supported by the XMON EUCON Software Application.

Installing the USB-to-MIDI Adapter

The included USB-to-MIDI adapter allows supported control surfaces to communicate with the workstation on which the XMON EUCON software is installed.

To install the USB-to-MIDI adapter:

- 1 Connect the USB end to a USB port on the workstation on which you will be installing XMON EUCON software.
- 2 Leave the MIDI IN and OUT jacks unconnected for now (these will be connected after installing the breakout cable).

Network Connections

The workstation on which you will be installing XMON EUCON Software must be connected to the control surface network. If you are installing XMON EUCON on the same workstation as one of your DAWs or other EUCON-aware applications, the required Ethernet connection between devices is already in place. If you will be installing XMON EUCON on a dedicated (non-DAW) workstation, you must connect that workstation to your control surface network.

For example, with S6 you must connect the workstation to the S6 Ethernet switch. After connecting the Control Cable Breakout Adapter, install WControl and XMON EUCON Software on the workstation (explained later in this guide). Make sure the workstation is recognized and connected to S6 in the Settings > Workstation screen.

Connecting the Control Cable Breakout Adapter

The Control Cable Breakout Adapter lets the XMON EUCON Software Application communicate with and control the XMON hardware. It also provides an audio connection for the XMON Talkback 1 and a Headphone jack.



Figure 5. Control Cable Breakout Adapter

To connect the Control Cable Breakout Adapter:

- 1 Connect the 15-pin end of the Control Cable Breakout Adapter to the **Control** port on the back panel of the XMON hardware.
- 2 Connect the **MIDI OUT** cable from the USB-to-MIDI adapter to the **MIDI IN** port on the Control Cable Breakout Adapter.
- 3 Connect the **MIDI IN** cable from the USB-to-MIDI adapter to the **MIDI OUT** port on the Control Cable Breakout Adapter.

Headphones

To connect headphones:

- Use a 1/4-inch TRS cable (not included) to connect the **Headphone Out** on the Control Cable Breakout Adapter to a headphone amp, or connect headphones directly.

Connecting a Talkback Microphone

The XMON EUCON Software Application supports both of the Talkback channels (1 and 2) available on XMON.

Talkback 1 Connects as part of the 15-pin Control Cable. Does not provide phantom power. Talkback 1 requires a mic preamp between the S6 and XMON. If using a condenser mic, the mic pre needs to provide phantom power.

Talkback 2 Connects via DB-25 cable to the XMON TB/LB/UTIL port. Talkback 2 provides +18V phantom power.

Use the following instructions to connect Talkback as appropriate for your talkback mic requirements.

To connect a Talkback microphone:

- 1 Connect an XLR cable to the **Talkback Thru** port on the back of the Master Module (a 90° connector is recommended).
- 2 Do one of the following, depending on the type of microphone you want to use for talkback:

48V To use a microphone that requires 48V phantom power, connect the other end of the cable to the input of a mic preamp with phantom power (not included). For 48V, you must use an external mic preamp with phantom power. Connect the output of the mic preamp to the **Talkback** input (Talkback 1) on the Control Cable Breakout Adapter.

18V To use a microphone that requires 18V (such as a low-power condenser), connect the other end of the XLR cable to the **Talkback 2 Microphone** input on the back panel of the XMON hardware (on the TB/LB/UTIL DB-25 connector).

Installing and Configuring the XMON EUCON Software Application

XMON EUCON is included with S6 Workstation software. Download the S6 Workstation installer from your Avid Account and launch it.

- On Mac, XMON is automatically installed along with WSControl.
- On Windows, the installer lets you choose to install XMON EUCON or Studio Monitor Pro (SMP 2). Select XMON EUCON.

Follow the on-screen instructions to complete installation.

Selecting a MIDI Port

The XMON EUCON Software Application uses a MIDI port to communicate with the XMON hardware. The Mac and Windows versions of XMON select this port differently.

💡 *Pro Tools users must deselect the MIDI device that XMON uses in Setup>MIDI>Input Devices.*

Mac

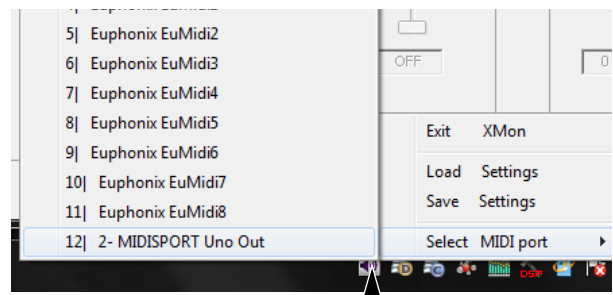
Right-click the XMON icon in the dock and select a MIDI port from the Select MIDI port menu. If you are using the included MIDI device, select it. Otherwise, select another MIDI port.

Windows

In Windows, click the XMON icon in the task tray and select a MIDI port from the Select MIDI port menu. If you are using the included MIDI device, select it. Otherwise, select another MIDI port.



XMON icon



XMON icon

Figure 6. Mac (left) and Windows (right) MIDI Port selection

Locking S6 to XMON

The Master Module automatically locks to the first focused EUCON monitoring application (such as XMON or DADman). When locked to a monitoring application, the Setup switch in the Master Module Monitor Select section lights yellow.

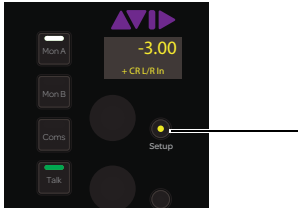


Figure 7. Setup (Lock) switch in the Control Room section of the S6 Master Module

To lock to a different monitoring application:

- 1 Unlock the current monitoring application by pressing the lit Setup (1) switch in the Master Module Monitor Select section. Make sure the Setup (1) switch LED is unlit.
- 2 Focus the desired monitoring application.

The Master Module automatically locks to the application.

How to Proceed

For operational instructions and examples of controlling XMON from S6 see the most recent edition of the *S6 Guide.pdf*.

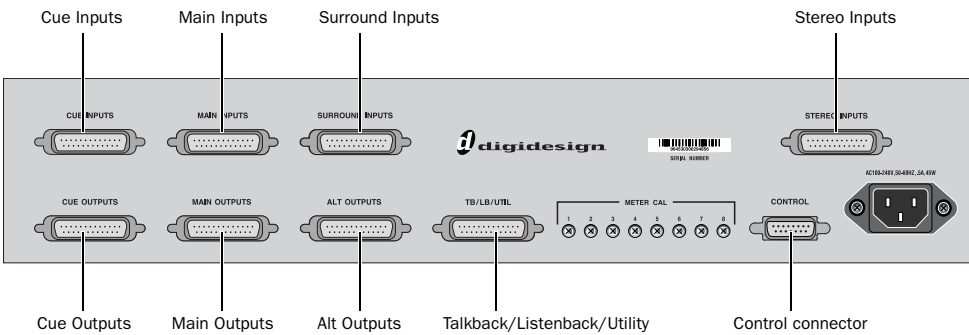
You can download this and all other S6 user guides from the S6 Support article on our Knowledge Base:

[Avid S6 Support](#)

Appendix A: DB-25 Connectors

This section shows a wiring diagram for each of XMON’s eight DB-25 connectors, and their pinout tables.

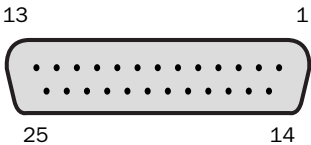
All audio connections are made to the back panel of the XMON interface, shown below. All audio connectors are standard female DB-25 connectors. The connector for communication with S6 is a 15-pin female connector.



XMON back panel connectors

25-Pin Female Connector Pinouts

All XMON DB-25 connector pinouts conform to the pin numbering scheme shown below.



DB-25 Connector (user view)

Cue Inputs

Cue Inputs

Signal Name	Hot (+)	Cold (-)	Ground (shield)
Cue Input 1	24	12	25
Cue Input 2	10	23	11
Cue Input 3	21	9	22
Cue Input 4	7	20	8
Cue Input 5	18	6	19
Cue Input 6	4	17	5
[Not Connected]	15	3	16
[Not Connected]	1	14	2
GND			13
SHIELD GND			connector housing

Main Inputs

Main Inputs

Signal Name	Hot (+)	Cold (-)	Ground (shield)
Main Input 1 (L)	24	12	25
Main Input 2 (Lc)	10	23	11
Main Input 3 (C)	21	9	22
Main Input 4 (Rc)	7	20	8
Main Input 5 (R)	18	6	19
Main Input 6 (Ls)	4	17	5
Main Input 7 (Rs)	15	3	16
Main Input 8 (LFE)	1	14	2
GND			13
SHIELD GND			connector housing

Surround Inputs

Surround Inputs

Signal Name	Hot (+)	Cold (-)	Ground (shield)
Surround Input 1 (L)	24	12	25
Surround Input 2 (Lc)	10	23	11
Surround Input 3 (C)	21	9	22
Surround Input 4 (Rc)	7	20	8
Surround Input 5 (R)	18	6	19
Surround Input 6 (Ls)	4	17	5
Surround Input 7 (Rs)	15	3	16
Surround Input 8 (LFE)	1	14	2
GND			13
SHIELD GND			connector housing

Stereo Inputs

Stereo Inputs

Signal Name	Hot (+)	Cold (-)	Ground (shield)
Stereo Input 1 (Left)	24	12	25
Stereo Input 1 (Right)	10	23	11
Stereo Input 2 (Left)	21	9	22
Stereo Input 2 (Right)	7	20	8
Stereo Input 3 (Left)	18	6	19
Stereo Input 3 (Right)	4	17	5
Stereo Input 4 (Left)	15	3	16
Stereo Input 4 (Right)	1	14	2
GND			13
SHIELD GND			connector housing

Cue Outputs

Cue Outputs

Signal Name	Hot (+)	Cold (-)	Ground (shield)
SLS Output (Left)	24	12	25
SLS Output (Right)	10	23	11
Cue Output 1 (Left)	21	9	22
Cue Output 1 (Right)	7	20	8
Cue Output 2 (Left)	18	6	19
Cue Output 2 (Right)	4	17	5
Cue Output 3 (Left)	15	3	16
Cue Output 3 (Right)	1	14	2
GND			13
SHIELD GND			connector housing

Main Speaker Outputs

Main Speaker Outputs

Signal Name	Hot (+)	Cold (-)	Ground (shield)
Main 1 (L)	24	12	25
Main 2 (Lc)	10	23	11
Main 3 (C)	21	9	22
Main 4 (Rc)	7	20	8
Main 5 (R)	18	6	19
Main 6 (Ls)	4	17	5
Main 7 (Rs)	15	3	16
Main 8 (LFE)	1	14	2
GND			13
SHIELD GND			connector housing

Alt Speaker Outputs

Alt Speaker Outputs

Signal Name	Hot (+)	Cold (-)	Ground (shield)
Alt 1 (L)	24	12	25
Alt 2 (Lc)	10	23	11
Alt 3 (C)	21	9	22
Alt 4 (Rc)	7	20	8
Alt 5 (R)	18	6	19
Alt 6 (Ls)	4	17	5
Alt 7 (Rs)	15	3	16
Alt 8 (LFE)	1	14	2
GND			13
SHIELD GND			connector housing

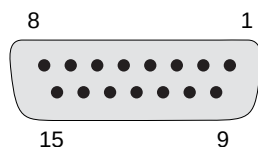
Talkback/Listenback Pinouts

Talkback/Listenback

Signal Name	Hot (+)	Cold (-)	Ground (shield)
Talkback 2 Mic Input	24	12	25
Listen Mic 1 Input	10	23	11
Listen Mic 2 Input	21	9	22
AFL Input 1	20	7	8
AFL Input 2	6	18	19
Mini Speaker Out (L)	4	17	5
Mini Speaker Out (R)	15	3	16
Talkback/Slate Out	1	14	2
GND			13
SHIELD GND			connector housing

15-Pin Connector Pinouts

The XMON 15-pin connector pinouts conform to the pin numbering scheme shown below.



15-pin connector (user view)

XMON Control Cable Breakout Adapter Connector Pinouts

XMON Control Cable Breakout Adapter Pinouts

Signal Name	Hot (+)	Cold (-)	Ground (shield)
[Not Connected]	1	9	
[Not Connected]	2	10	
MIDI Input	12	4	
MIDI Output	11	3	
Headphones L	13		5
Headphones R	14		6
Talkback 1 Mic	15		8
GND			7
SHIELD GND			connector housing

Appendix B: Specifications

XMON Mechanical Specifications

XMON Mechanical Specifications	
Height	2U rack, 3.5 inches (8.89 cm)
Width	19 inches (48.26 cm)
Depth	14 inches (35.56 cm), plus 3 inches (7.62 cm) for cable access
Power	100–240 VAC, 50–60 Hz, 0.5 A
Power Connector	IEC, 3-pin North American standard
Control Connector	15-pin D-Sub

XMON Audio Specifications

XMON Audio Specifications	
Gain Range	-90 dB to +30 dB, 1 dB steps, 0.5 dB trim
Frequency Response	20 Hz – 200 kHz, +/-0.1 dB
Maximum Input Level	+26 dB
THD+N	0.0006 @ 1 kHz @ +15 dBu
CMRR	>75 dB

Appendix C: Compliance Information

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/hazardous waste/perchlorate](http://www.dtsc.ca.gov/hazardous%20waste/perchlorate).”

Recycling Notice



EMC (Electromagnetic Compliance)

Avid declares that this product complies with the following standards regulating emissions and immunity:

- FCC Part 15 Class B
- EN55103-1 E4
- EN55103-2 E4
- AS/NZS CISPR 22 Class B
- CISPR 22 Class B

FCC Compliance for United States

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 locate 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 and Safety)



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



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Technical Support (USA)
Visit the Online Support Center
at www.avid.com/support

Product Information
For company and product information, visit us on the web at www.avid.com