4K HDR Multichannel Digital to Two-Channel Audio Converter
AT-HDR-M2C-QUAD

The Atlona **AT-HDR-M2C-QUAD** is an audio converter for extracting and downmixing multichannel PCM, Dolby®, and DTS® audio from HDMI. The HDR-M2C-QUAD provides simultaneous audio conversion for four HDMI sources. Each HDMI input features pass-through on its associated HDMI output. It also includes unbalanced analog and TOSLINK digital audio outputs with a down-mixed stereo signal. The HDR-M2C-QUAD is compatible with High Dynamic Range (HDR) formats and is HDCP 2.2 compliant. It supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. This quad HDMI audio conversion device includes EDID management features as well as audio volume and bass / treble controls for each converter, all available via Ethernet through the Atlona Management System (AMS), the web GUI, or a control system. The HDR-M2C-QUAD is ideal for serving surround sound and/or two-channel audio systems from up to four HDMI sources, while facilitating pass-through to a matrix switcher.
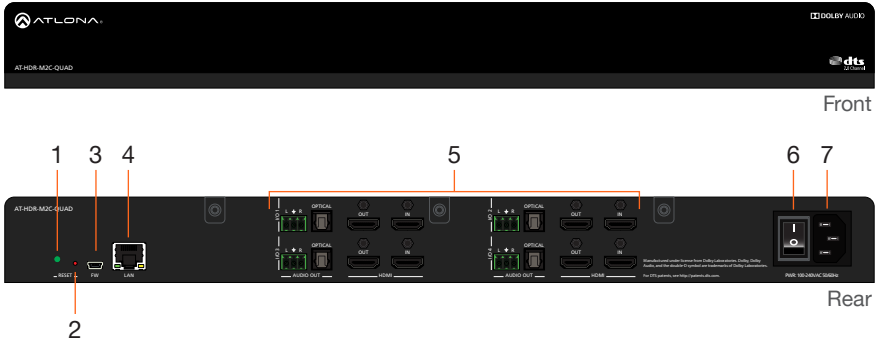
Package Contents

1 x AT-HDR-M2C-QUAD
4 x 3-pin captive screw connectors
1 x Power cable
1 x Wall/table mounting brackets
1 x Installation Guide

IMPORTANT: Visit http://www.atlona.com/product/AT-HDR-M2C-QUAD for the latest firmware updates and User Manual.

Panel Descriptions

Front

Rear

1   RESET LED Indicator
This button shows the reset status.

2   RESET Button
Press this button to reset the AT-HDR-M2C-QUAD.

3   FW
Connect a mini USB cable from a computer to this port to update the firmware.

4   LAN
Connect an Ethernet cable from this port to a Local Area Network (LAN). This port provides access to the web GUI.

5   I/O 1 - I/O 4
The AT-HDR-M2C-QUAD provides four sets of audio and video input / output ports:

Analog Audio - Connect the included 3-pin captive screw block from this port to a two-channel audio output device. Refer to Audio Connector (page 3) for wiring information.

Optical Audio - Connect an optical cable from this TOSLINK connector to an AV receiver. Only two-channel audio output is supported.

HDMI OUT - Connect an HDMI cable from this port to a display or other sink device. This output supports multichannel audio.

HDMI IN - Connect an HDMI cable from this port to a source with multichannel audio.

6   Power Button
Press this button to power-on or power-off the AT-HDR-M2C-QUAD.
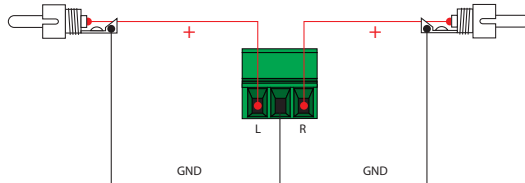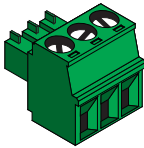
7   Power receptacle
Connect the included power cable from this receptacle to an available electrical outlet.

Audio Connector

The AT-HDR-M2C-QUAD provides analog audio output of two-channel audio, using the included 3-pin captive screw block.

1. Use wire strippers to remove a portion of the cable jacket.

2. Remove at least 3/16" (5 mm) from the insulation of each wire.

3. Insert the wires into the correct terminal on the captive screw connector, as shown below.

4. Tighten the screws to secure the wires. Do not use high-torque devices as this may damage the screws and/or connector block.

Installation

1. Connect an HD/UHD source to each of the **HDMI IN** ports on the AT-HDR-M2C-QUAD.

2. Connect an HDMI cable from each **HDMI OUT** port on the AT-HDR-M2C-QUAD to a display or other sink device. **HDMI OUT** ports support multichannel audio.

3. Connect an optical audio cable from each **OPTICAL** port on the AT-HDR-M2C-QUAD, to a sound bar or other audio output device. Audio output on this port is limited to two-channels.

4. Connect the included 3-pin captive screw block from each analog audio output to a set of powered speakers or other output device. Refer to Audio Connector (page 3) for wiring information.

5. Connect an Ethernet cable from the **LAN** port on the AT-HDR-M2C-QUAD, to the Local Area Network (LAN).

6. Connect the included power cable from the power receptacle on the AT-HDR-M2C-QUAD to an available electrical outlet.

AMS 2.0

For easy configuration of Atlona devices, AMS 2.0 is available from https://atlona.com/AMS for free. Two options can be used for installation: The free Linux-based software download or the easy-to-install server hardware (AT-AMS-HW).

Once AMS has been set up:

1. Open a browser on the same network as AMS 2.0 and go to the IP of AMS 2.0. View the AMS 2.0 installation instructions on how to find the IP of the software, if necessary.

2. Enter the login information on the AMS 2.0 web page, then click the **Login** button.

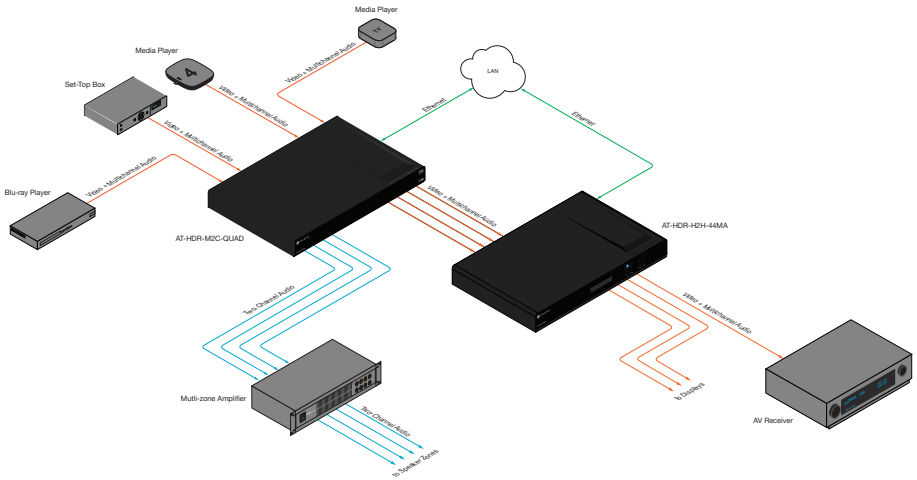3. View the AT-HDR-M2C-QUAD manual for routing and configuration.

WebGUI

The AT-HDR-M2C-QUAD includes a built-in webGUI, which allows easy management and control of all features. Follow the instructions below to access the webGUI.

1. Set the IP mode of the AT-HDR-M2C-QUAD. By default, the AT-HDR-M2C-QUAD is set to DHCP mode.

   - Static IP mode: Press and hold the recessed button, with the tip of a pencil or paper clip, until the **PWR** indicator blinks twice. The default static IP address is 192.168.1.254.

   - DHCP mode: Press and hold the button until the **PWR** indicator blinks four times.

2. Connect an Ethernet cable from the **LAN** port on the AT-HDR-M2C-QUAD, to the Local Area Network (LAN).

3. Use an IP scanner to determine the IP address of the AT-HDR-M2C-QUAD.

4. Launch a web browser and enter the IP address of the unit.

5. The AT-HDR-M2C-QUAD **Login** page will be displayed.

6. Enter the following information on the **Login** page.

   Login: **admin**
   Password: **Atlona**

7. Click the **Login** button.

ATLONA
a PANDUIT company

Connection Diagram

Media Player

Media Player

Set-Top Box

Blu-ray Player

Video + Multichannel Audio

Video + Multichannel Audio

Video + Multichannel Audio

Ethernet

LAN

Ethernet

Video + Multichannel Audio

AT-HDR-M2C-QUAD

AT-HDR-H2H-44MA

Two Channel Audio

Mutli-zone Amplifier

Two Channel Audio

To Speaker Zones

Video + Multichannel Audio
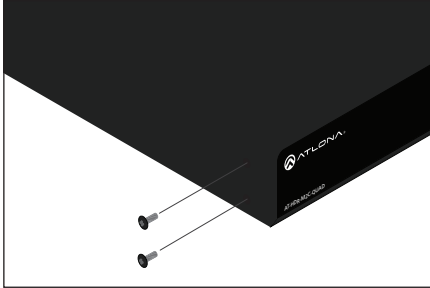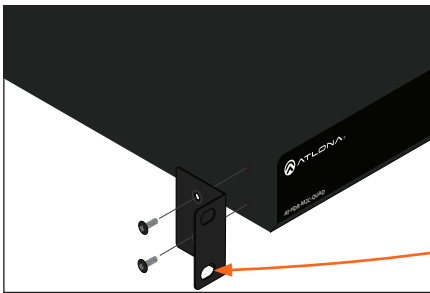
To Displays

AV Receiver

Mounting Instructions

The AT-HDR-M2C-QUAD includes two rack ears, which can be used to install the unit into a rack. Use the two enclosure screws, on the sides of the unit to attach the rack ears.

1. Using a small Phillips screwdriver, remove the two screws from the left side of the enclosure.

2. Position one of the rack ears, as shown below, aligning the holes on the side of the enclosure with one set of holes on the rack ear.

3. Use the screws from Step 1 to attach the rack ear.

Oval-shaped holes

4. Repeat Steps 1 through 3 to attach the second rack ear to the opposite side of the unit.

5. Install the assembly into the rack. Secure the unit to the rack using the oval-shaped holes, on each rack ear.

Troubleshooting

Problem	Solution
PWR indicator is off.	• Check that the included power supply is connect to an active AC electrical outlet. • Veriify that the power switch, on the rear of the unit, is in the ON position.
Multichannel audio is not heard when using the **OPTICAL** connector.	• The **OPTICAL** connector only supports two-channel LPCM audio. To hear a multichannel audio source, connect an HDMI cable from one of the **HDMI OUT** ports on the AT-HDR-M2C-QUAD to the sink device.
No multichannel audio on the HDMI output.	• Make sure that the HDMI cable is connected from the sink device to the **HDMI OUT** ports on the AT-HDR-M2C-QUAD. • Check that the HDMI cable is in good condition or try another HDMI cable. • If the source supports multichannel output, check that the source is configured to output multichannel audio.
No video signal on the output.	• Verify that an HDMI cable is connected from each source device to the **HDMI IN** ports on the AT-HDR-M2C-QUAD. • Check that all HDMI cables are in good condition or try other HDMI cables.

Version 4