# Wallplate Networked AV Encoder
AT-OMNI-111-WP

The Atlona **OmniStream™ 111 WP** (**AT-OMNI-111-WP**) is a networked AV encoder for HDMI 2.0 sources up to 4K @ 60 Hz and HDR (High Dynamic Range). It features a US two-gang, Decora®-style wallplate form factor, and includes interchangeable black and white wallplates and faceplates. The OmniStream 111 WP is part of the OmniStream Pro Series, designed for high performance, flexible distribution of AV over standard, off-the-shelf PoE-capable Gigabit Ethernet switches in commercial audiovisual applications. It is HDCP 2.2 compliant and ideal for the latest Ultra High-Definition and HDR sources. This networked AV encoder features advanced high-quality, VC-2 visually lossless video compression technology with user-selectable, video quality optimization engines designed for computer-generated imaging, or motion video content. The Atlona OmniStream wallplate achieves extremely low, sub-frame latency when paired with OmniStream AV decoders.

## Package Contents

1 x AT-OMNI-111-WP
1 x Black faceplate
1 x White Decora® wallplate
1 x Black Decora® wallplate
1 x 3.5 mm-to-DE-9 (M-F) cable
4 x Spare screws
1 x Installation Guide

**IMPORTANT**: Visit http://www.atlona.com/product/AT-OMNI-111-WP for the latest firmware updates and User Manual.

## Operating Notes

- Atlona recommends using the Atlona Management System (AMS) which provides discovery, management, and configuration assistance. AMS is a free application that can be downloaded from the Atlona web site at http://atlona.com/product/at-sw-ams/.

- This product includes a built-in web interface, which can be used to manage and configure this device.

- OmniStream uses mDNS as the discovery mechanism. In order for mDNS to function properly, there must not be restrictions applied to the network. VPN can be used to connect to a computer that is running AMS, on the same network. However, VPN cannot be used when AMS is running on the local machine.

## Panel Descriptions
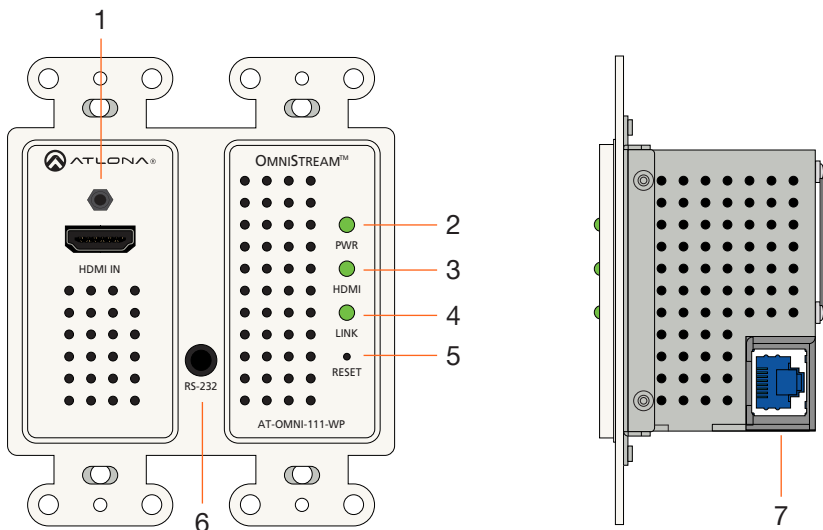


**1 HDMI IN**
Connect an HDMI cable from this port to an HD source.

**2 PWR**
This LED indicator glows bright green when the unit is powered.

**3 HDMI**
This LED indicator shows the input status.

**4 LINK**
This LED indicator is green when the link integrity between the AT-OMNI-111-WP and the switch is good.

**5 RESET**
Press and release this button to reboot the AT-OMNI-111-WP.  Note that this operation *does not* reset the unit to factory-default settings.

**6 RS-232**
This is a service port used for future management purposes.

**7 ETHERNET**
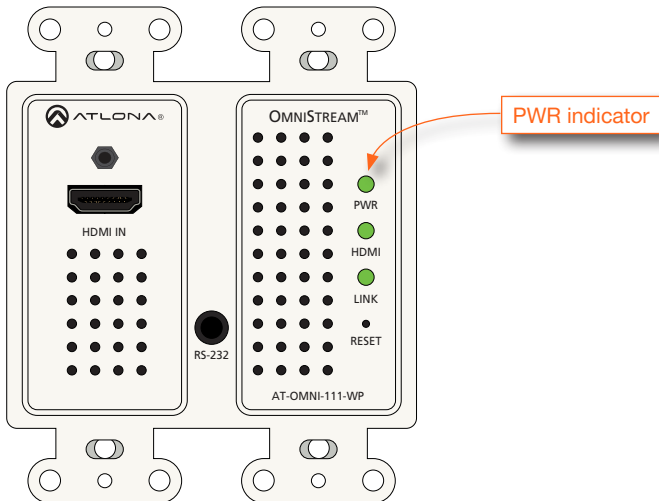Connect an Ethernet cable from this port to the Local Area Network (LAN).

## Installation

⚠️ **IMPORTANT**: The venting holes, surrounding the enclosure, along with the fan assembly on the back of the unit, provides cooling by expelling warm air from the enclosure. To prevent overheating, make sure these holes and the fan assembly are not blocked.

1.  Connect an Ethernet cable from the **ETHERNET** port on the AT-OMNI-111-WP to a PoE-capable switch on the Local Area Network (LAN).

2.  Install the AT-OMNI-111-WP into a 2-gang electrical box or mud ring.

3.  Attach the included Decora® wallplate to secure the AT-OMNI-111-WP to the wall/surface.

4.  Connect an HDMI cable from a HD/UHD source to the **HDMI IN** port on the AT-OMNI-111-WP.

5.  The **PWR** indicator, on the front panel, displays the power status. When the AT-OMNI-111-WP is powered, the **PWR** LED initially turns red. After a few moments it will turn amber, and finally green.

6.  The AT-OMNI-111-WP is now ready for operation.

## LED Indicators

| LED | | | Description |
|-----|---|---|-------------|
| PWR | Off | ○ | • Make sure that the port on the switch, which is connected to the AT-OMNI-111-WP, has PoE enabled. When powered, the **PWR** indicator will be green.<br>• Check the Ethernet cable for possible damage or loose connections. |
| | Red | ● | • The AT-OMNI-111-WP is booting. |
| | Green | ● | • The AT-OMNI-111-WP is powered and ready for use. |
| HDMI | Red | ● | • No source is connected to the input.<br>• Check the HDMI cable for possible damage or loose connections. |
| | Green | ● | • The link integrity between the source and the AT-OMNI-111-WP is good. |
| LINK | Off | ○ | • No Ethernet connection exists between the network/switch and the AT-OMNI-111-WP.<br>• Check the Ethernet cable for possible damage or loose connections. |
| | Red | ● | • Unit is booting. When the unit is ready for use, the **LINK** indicator will be green. |
| | Green | ● | • Link integrity is good between the AT-OMNI-111-WP and the network. Unit is ready for use. |

## Configuration

1. Launch a web browser and enter the IP address of AMS, in the address bar.

2. Enter the required login credentials.
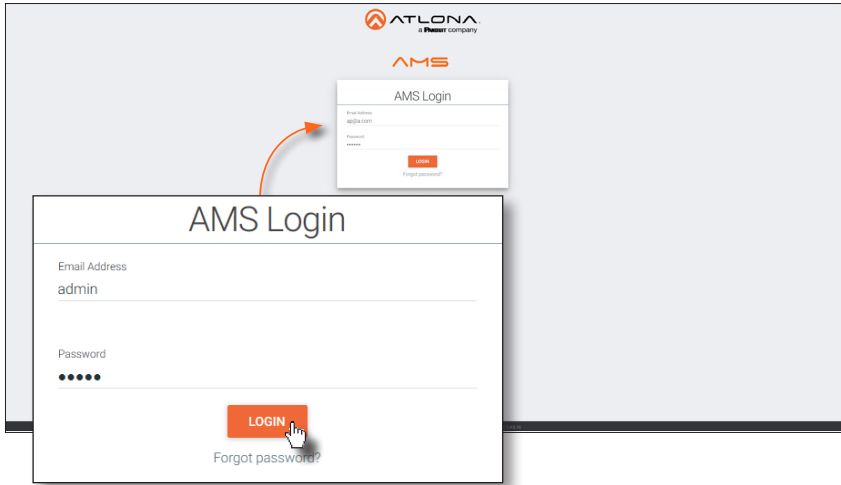


3. Click the **Login** button.

4. The AMS Dashboard will be displayed.

5. Click the ☰ icon, in the upper-left corner of the AMS Dashboard.

6. Click **Devices** from the fly-out menu.

7. Click the **Unassigned** option.

All available AT-OMNI-111-WP units will be displayed under the **Unassigned** category. When the AT-OMNI-111-WP is unassigned, it means that it has not been assigned to a site, building, and/or room, within AMS.  Refer to the AMS User Manual for more information on these topics.

If a DHCP server is not found within 60 seconds, the AT-OMNI-111-WP will be placed in Auto IP mode and assigned an IP address within the range of 169.254.xxx.xxx.   If this occurs, configure the network interface of the computer that is running AMS, located on the same subnet (169.254.xxx.xxx, subnet mask 255.255.0.0).  Refer to User Manual for more information.

If the AT-OMNI-111-WP is not found, then verify the following:

- The computer that is running AMS or web browser must be on the same network as the AT-OMNI-111-WP.

- Remove any network restrictions that may be in place.  In order for mDNS to function properly, there must not be restrictions applied to the network.

8.  Click the left and right arrows, at the bottom of the **Unassigned** list, to scroll through all available devices.

9.  Click the AT-OMNI-111-WP from the **Unassigned** device list.
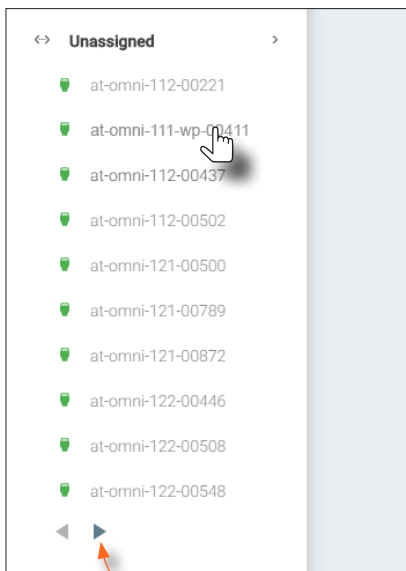


Arrows

Once the unit is selected, the AMS interface for the AT-OMNI-111-WP will be displayed. Refer to the User Manual for more information on the AMS interface.

## Troubleshooting

| Problem | Solution |
|---------|----------|
| **PWR** indicator is off. | • Make sure that the port on the switch that is connected to the AT-OMNI-111-WP, has PoE enabled. When powered, the **PWR** indicator will be green.<br>• Check the Ethernet cable for possible damage or loose connections. |
| **LINK** indicator is red. | • Unit is booting. When the unit is ready for use, the **LINK** indicator will be green. |
| The AT-OMNI-111-WP is not displayed within AMS. | • Verify that AMS and the AT-OMNI-111-WP are on the same network.<br>• If a DHCP server is not found within 60 seconds, the AT-OMNI-111-WP will be placed in Auto IP mode and assigned an IP address within the range of 169.254.xxx.xxx.<br>If so, then connect a laptop directly to the AT-OMNI-111-WP and assign it a static IP address.<br>• Check the Ethernet cable for possible damage or loose connections.<br>• Make sure that mDNS is enabled on the network.<br>In order for mDNS to function properly, there must not be any restrictions applied to the network. |