

## 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

### Operating Notes

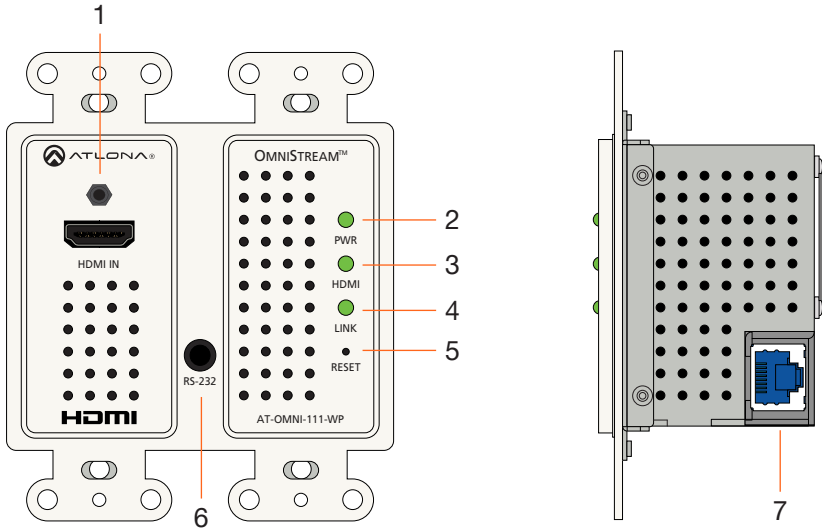
- Atlona recommends using the Velocity with Integrated AMS which provides discovery, management, and configuration assistance. Velocity with Integrated AMS is a free application that can be downloaded from the Atlona web site at <http://atlona.com/product/at-ams-sw/>.
- OmniStream uses mDNS as the discovery mechanism. In order for mDNS to function properly, there must not be restrictions applied to the network. Although VPN can be used to connect to a computer that is running Velocity, on the same network, it cannot be used when Velocity is running on the local machine.



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



**Panel Descriptions**



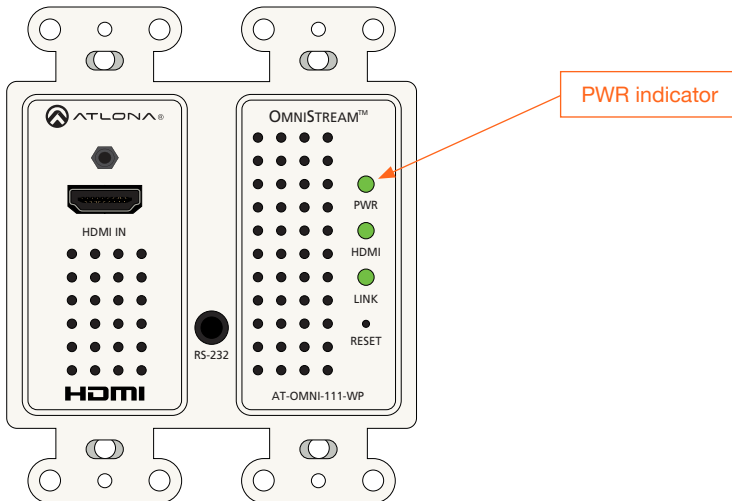
- 1 HDMI IN**  
Connect an HDMI cable from this port to a UHD/HD source.
- 2 PWR**  
This LED indicator is green when the unit is powered and fully booted.
- 3 HDMI**  
This LED indicator is green when the link between source and encoder is good.
- 4 LINK**  
This LED indicator is green when the link integrity between the AT-OMNI-111-WP and the network 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



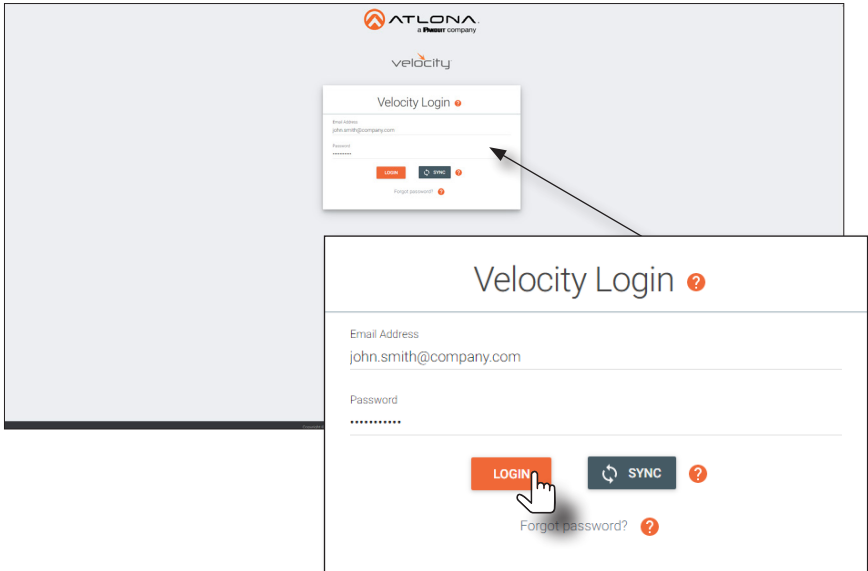
**IMPORTANT:** The venting holes, surrounding the enclosure, along with the fan assembly on the back of the unit, provides cooling by expelling warm air from the enclosure. To prevent overheating, make sure these holes and the fan assembly are not blocked.


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.



## Accessing devices using Velocity with Integrated AMS

1. Launch a web browser and enter the IP address of Velocity, in the address bar.
2. Enter the required login credentials.



3. Click the **Login** button.
4. The Velocity with Integrated AMS Dashboard will be displayed.
5. Click the  icon, in the upper-left corner.
6. Click **Management > AMS Device Manager** from the fly-out menu.

All available encoders will be displayed under the **Unassigned** category. When an encoder is unassigned, it means that it has not been assigned to a site, building, and/or room. Refer to the Velocity User Manual for more information on these topics.

If a DHCP server is not found within 60 seconds, the encoder 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 no OmniStream encoders are found, then verify the following:

- The computer that is running Velocity must be on the same network as the OmniStream device.
- 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.



7. Click the desired encoder from the **Unassigned** device list or from under the **Device List** column.

The screenshot shows a web interface with a sidebar on the left and a main content area on the right. The sidebar has a 'DEVICE LIST' button at the top, followed by 'Home', 'Building 1', and 'Unassigned'. A mouse cursor is pointing at the 'Unassigned' link. The main content area is titled 'Device List' and contains a table with columns for Status, Title, and IP Address. The table lists several devices, including 'ANC108D-000000', 'AT-OME-ST31', 'at-omni-111-01466', and 'at-omni-112-01548'. The 'at-omni-112-01548' device is highlighted in blue.

Status	Title	IP Address
	<a href="#">ANC108D-000000</a>	10.1.0.10
	<a href="#">AT-OME-ST31</a>	10.1.0.18
	<a href="#">at-omni-111-01466</a>	10.1.0.11
	<a href="#">at-omni-112-01548</a>	10.1.0.11

Once the unit is selected, the Velocity with Integrated AMS interface for the encoder will be displayed. Refer to the User Manual for more information on the interface.

The screenshot shows a web interface with a dark header containing 'DEVICE INFO', 'INPUT', and 'SERIAL' tabs. The 'DEVICE INFO' tab is active. Below the header is a 'Device Info' section with a table of device details. A 'FIRMWARE UPDATE' button is visible below the table. The table lists the following information:

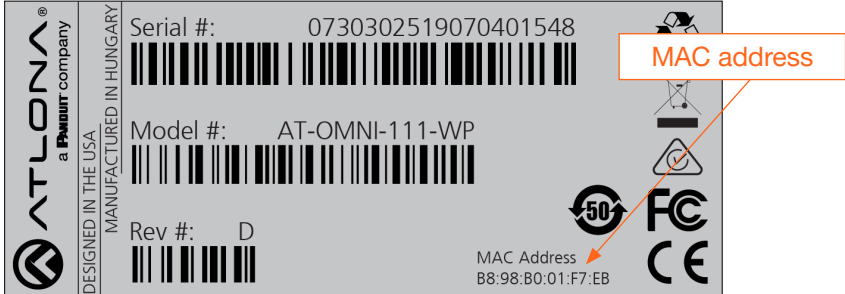
Alias:	
Model:	AT-OMNI-111
IP Address:	10.1.0.111
MAC Address:	B8:98:B0:01:FA:58
Firmware Version:	1.2.6
Description:	
Location:	
Uptime:	12 minutes



## Accessing devices using the built-in Web Server

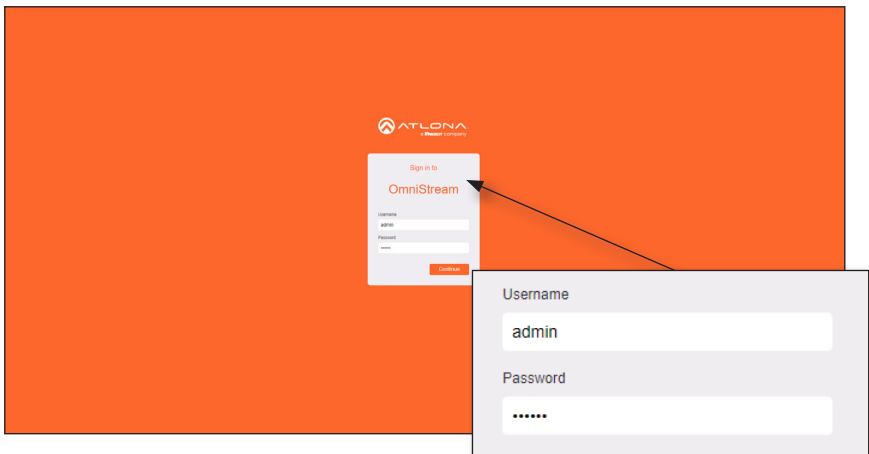
1. Identify the desired encoder by locating the MAC address on the bottom of the unit.

In the following example (refer to your unit for the actual address), the label indicates that the MAC address for the physical interface is B8:98:B0:01:F7:EB.

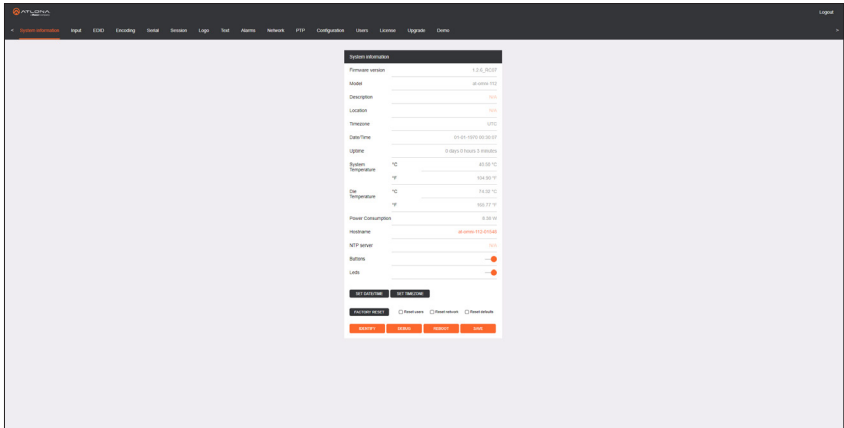


2. Connect a PC to the same network where the OmniStream encoders/decoders are connected.
3. Locate the IP address, matching it with the MAC address of the device, using an IP scanner or ARP.
4. Launch the desired web browser and enter the IP address of the encoder in the address bar.
5. Enter the username and password. Note that the password field will always be masked. The default credentials are:

Username: admin  
Password: Atlona



- The **System Information** screen will be displayed. Refer to the User Manual for more information on the web server interface.



- The login process is complete.



## Troubleshooting

Problem	Solution
<b>PWR</b> indicator is off.	<ul style="list-style-type: none"><li>• Make sure that the port on the switch that is connected to the AT-OMNI-111-WP, has PoE enabled. When powered, the <b>PWR</b> indicator will be green.</li><li>• Check the Ethernet cable for possible damage or loose connections.</li></ul>
<b>LINK</b> indicator is red.	<ul style="list-style-type: none"><li>• Unit is booting. When the unit is ready for use, the <b>LINK</b> indicator will be green.</li></ul>
The AT-OMNI-111-WP is not displayed within AMS.	<ul style="list-style-type: none"><li>• Verify that AMS and the encoder are on the same network.</li><li>• If a DHCP server is not found within 60 seconds, the encoder will be placed in Auto IP mode and assigned an IP address within the range of 169.254.xxx.xxx. To access the encoder, configure a static IP on the PC within the same IP range, then connect the PC directly to the encoder and configure a static IP address for the encoder. This static IP address must be within the same IP range that is used by the Velocity with AMS Integration software. Otherwise, the encoder will not show up.</li><li>• Check the Ethernet cable for possible damage or loose connections.</li><li>• Make sure that mDNS is enabled on the network. Also, in order for mDNS to function properly, there must not be any restrictions applied to the network.</li></ul>





**Notes**



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## English Declaration of Conformity

The English version can be found under the resources tab at:

<https://atlona.com/product/at-omni-111-wp/>.



## Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

<https://atlona.com/about-us/china-rohs/>.



HIGH-DEFINITION MULTIMEDIA INTERFACE

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