

USB to IP Adapter for Peripheral Devices





Version Information

Version	Release Date	Notes	
1	4/18	Initial release	



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Operating Notes



IMPORTANT: Visit http://www.atlona.com/product/AT-OMNI-324 for the latest firmware updates and User Manual.

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Atlona warrants its products will substantially perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service.

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OR

• replace and return, free of charge, any defective products with direct replacement or with similar products deemed by Atlona to perform substantially the same function as the original products.

OF

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Remedy

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Atlona, Inc. ("Atlona") Limited Product Warranty

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 installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by
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Important Safety Information



CAUTION: TO REDUCT THE RISK OF DO NOT OPEN ENCLOSURE OR EXPOSE TO RAIN OR MOISTURE NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.



The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this product near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

- Do not defeat the safety purpose of a 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 the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
- 11. Only use attachments/accessories specified by Atlona.
- 12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
- 13. Unplug this product during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the product 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 product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.















FCC Statement



FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or 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 to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

AT-OMNI-324



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Introduction

The Atlona **OmniStream™ 324** (**AT-OMNI-324**) works in tandem with the OmniStream 311 (AT-OMNI-311) for extending USB from peripheral devices to a PC over Gigabit Ethernet. The OmniStream 324 features a four-port USB hub for peripherals, while the OmniStream 311 interfaces with a PC or other host device. The OmniStream USB over IP system is compatible with USB 2.0 data rates of up to 480 Mbps. It can be used with high-bandwidth devices including cameras, speakerphones, microphones, and DSPs, plus standard USB HID class devices such as a keyboard, mouse, or touch display. Up to seven OmniStream 324 units can be simultaneously paired to an OmniStream 311. Additionally, USB routing over the network can be managed using Atlona Management System (AMS) 2.0.

OmniStream USB products can be used in a wide variety of system design scenarios for soft codec conferencing and remote keyboard / mouse control. They are ideal for integrating USB audio and video devices as part of a fully IP-based meeting room system, in conjunction with OmniStream AV over IP devices and the Velocity Control System.

Features

- Extend USB over Gigabit Ethernetusing CAT5e/6 cable.
- Four-port USB hub.
- Supports high bandwidth devices such as webcams and speakers, as well as standard HID-class peripherals.
- Compatible with USB 2.0 data rates up to 480 Mbps.
- Ideal for meeting room applications to extend USB from touch displays, cameras, speakerphones, DSPs, and more.
- Design flexible and scalable AV systems in combination with OmniStream AV encoders and decoders.
- Up to seven OmniStream 324 units can be paired with an OmniStream 311 over a network.
- USB signal routing configured and managed by AMS (Atlona Management System) 2.0.
- Ready for integration with Atlona Velocity[™] Control System to manage USB signal routing.
- Front panel LED indicators for power, network and USB host connectivity, and USB signal presence over IP.
- Low-profile, 1 inch (25 mm) high enclosure.
- Includes installation guide, surface-mounting brackets, and external universal power supply.

Package Contents

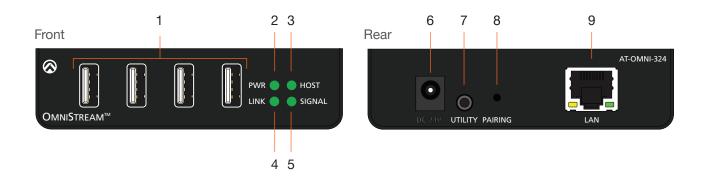
1 x AT-OMNI-324 2 x Mounting brackets

1 x 24 V DC power supply

1 x Installation Guide



Panel Description



1 USB Device Ports

Connect up to four USB devices using these ports.

2 PWR

This LED indicator glows solid green when the unit is powered.

3 HOST

This LED indicator glows green when a USB host device is connected to the AT-OMNI-311 (not included). Refer to LED Indicators (page 12) for more information.

4 LINK

This LED indicator is solid green when a solid connection between this unit and the transmitter has been established. Refer to LED Indicators (page 12) for more information.

5 SIGNAL

This LED indicator monitors data transmission between this unit and the receiver. The LED will blink intermittently whether or not a USB device is connected. Refer to LED Indicators (page 12) for more information.

6 DC 24V

Connect the included power supply to this power receptacle.

7 UTILITY

This port is for factory programming.

8 PAIRING

Press this button to begin the pairing process.

9 LAN

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



Installation

Connection Instructions

1. Place the AT-OMNI-324 near the location of the USB devices to be connected. Connect up to four USB devices to the USB ports on the AT-OMNI-324.

The AT-OMNI-324 can be connected to a AT-OMNI-311 (not included) in one of two ways:

Over a Network

- a. Connect an Ethernet cable, up to 330 feet (100 meters), from the **LAN** port on the AT-OMNI-324 to the network switch. Note that multiple AT-OMNI-324 units can be connected to the network.
- b. Connect an Ethernet cable, up to 330 feet (100 meters), from the transmitter (AT-OMNI-311; not included) to a switch on the same network.



NOTE: When connecting a transmitter and receiver, over a network, the cable distance between hops must not exceed 330 feet (100 meters) for copper connections (fiber extenders can be used to create longer runs). For example, connecting up to five network switches, using copper cabling, can be used to extend USB up to 1980 feet (600 meters).

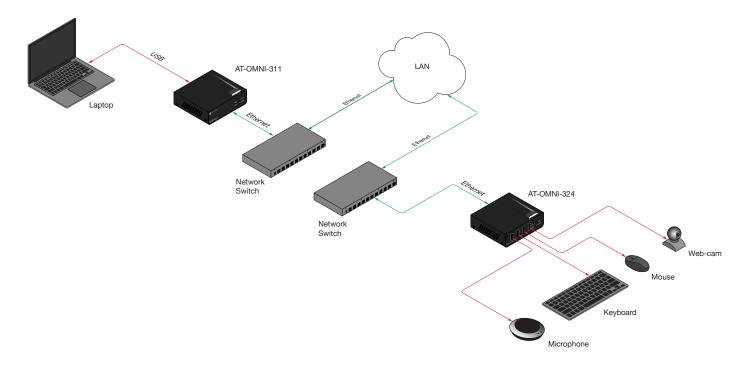
Direct Connection

- Connect an Ethernet cable, up to 330 feet (100 meters), from the LAN port of the AT-OMNI-324 directly to the AT-OMNI-311 (not included).
- 2. Connect the included power supply to the **DC 24V** power receptacle.
- 3. Connect the power supply to an available electrical outlet.
- 4. Refer to Pairing (page 13) for instructions on pairing.

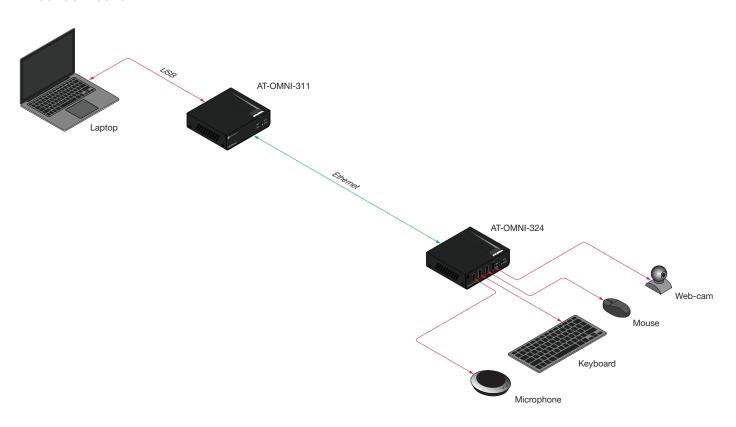


Connection Diagrams

Connection over a Local Area Network (LAN)



Direct Connection





Basic Operation

LED Indicators

The **PWR**, **LINK**, **HOST**, and **SIGNAL** LED indicators on the OmniStream 311 provide basic information on the current status of the unit.

LED			Description	
PWR	Solid green		Unit is powered.	
	Off		Unit is not powered.	
			 Verify that the included power supply is connected to the AT- OMNI-324 and that the power supply is connected to a live electrical outlet. 	
LINK	Solid green	•	The link integrity between the receiver and the transmitter is good.	
	Blinking green (slow)		The receiver is attempting to establish a link with the transmitter.	
	Blinking green (fast)		The receiver is in Pairing Mode.	
	Off	0	There is no link between the receiver and the transmitter.	
			Direct Mode: Verify that an Ethernet cable is connected between the LAN port on the receiver and the transmitter.	
			 Network Mode: Verify that an Ethernet cable is connected between the LAN port on the receiver and the network switch. 	
			Check that the Ethernet cable is not physically damaged.	
			Make sure that the Ethernet cable does not exceed 330 feet (100 meters).	
HOST	Solid green	•	The transmitter is properly enumerated on the host computer.	
	Blinking green		The transmitter is a suspended state.	
SIGNAL	Blinking green	•	This LED indicator will blink intermittently when data is being transmitted between the receiver and the transmitter.	
	Off	0	The receiver is in Suspend Mode.	

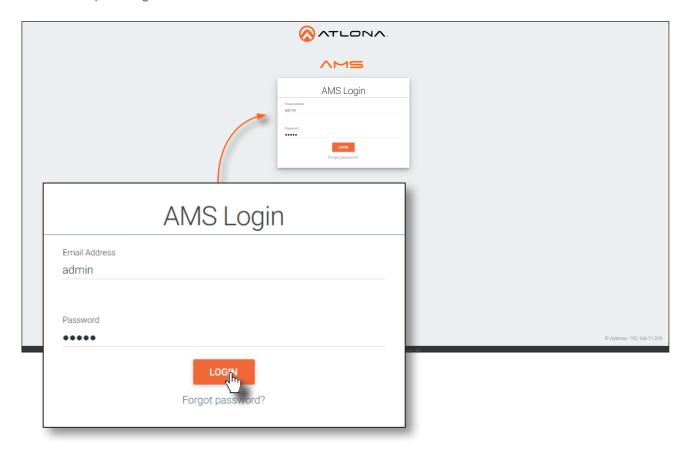


Pairing

Pairing an OmniStream 324 to an OmniStream 311 (not incuded) is managed using the Atlona Management System (AMS). AMS is free and can be downloaded from https://atlona.com/AMS. The pairing process can also be performed using the Server Appliance for Atalona Management System (AT-AMS-HW).

Using AMS

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

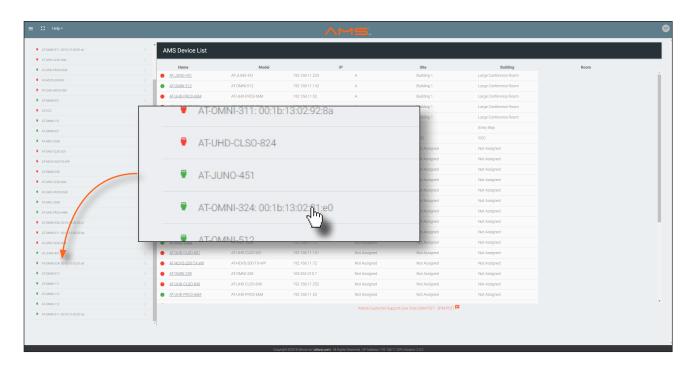


- 3. Click the Login button.
- 4. The AMS Dashboard will be displayed.
- 5. Click the \equiv icon, in the upper-left corner of the AMS Dashboard.
- 6. Click **Devices** > **Unassigned** from the fly-out menu.

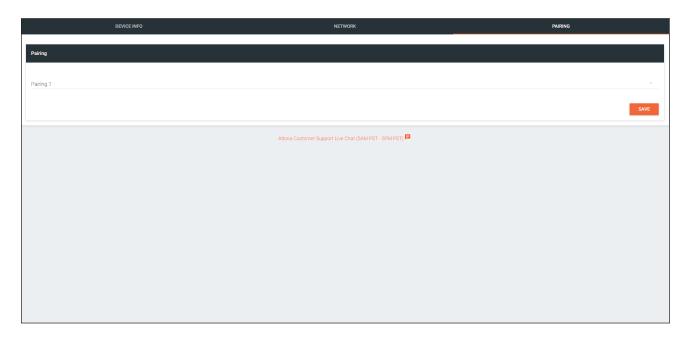
All available OmniStream 324 devices will be displayed under the **Unassigned** category. When a device is unassigned, it means that the device has not yet been assigned to a site, building, and/or room. Refer to the AMS User Manual for more information on these topics.



7. Click the AT-OMNI-324 from the **Unassigned** list.

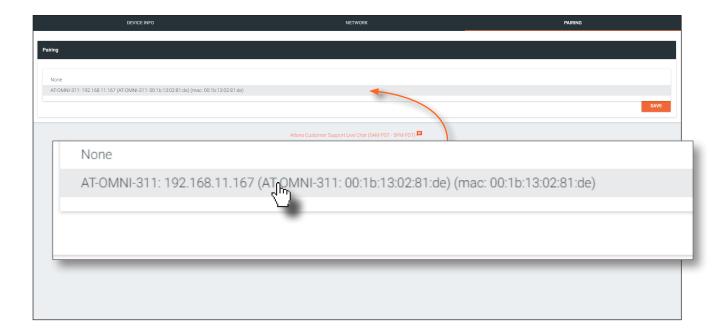


8. The **DEVICE INFO** page for the AT-OMNI-311 will be displayed. Click the **PAIRING** tab.





9. Click the Pairing drop-down list and select the desired OmniStream 311. In this example, only a single OmniStream 311 is connected to the network. Therefore, this is the only available option. Up to seven OmniStream 324 units can be paired to an OmniStream 311.



- 10. Click the **SAVE** button at the bottom of the page.
- 11. The pairing process is complete. Repeat steps 7 through 10 for each OmniStream 324 on the network.

To unpair an OmniStream 324 from an OmniStream 311, select **None** from the drop-down list and then click the **SAVE** button.



Manual Pairing

When the OmniStream 311 and OmniStream 324 are connected directly to one another, follow the instructions below. This procedure covers both the OmniStream 311 and OmniStream 324.

1. Make sure both the OmniStream 311 and OmniStream 324 are directly connected using an Ethernet cable, and that all USB connections have been made.

OmniStream 311

2. Press and hold the **PAIRING** button on the OmniStream 311 using the end of a paperclip or other pointed object.



3. Release the **PAIRING** button after approximately 10 seconds. The **LINK** LED indicator will begin flashing. Pairing mode is now active on the OmniStream 311.

OmniStream 324

- 4. Press and hold the **PAIRING** button on the OmniStream 324 using the end of a paperclip or other pointed object. The **PAIRING** button on the OmniStream 324 must be pressed within 10 minutes of activating pairing mode on the OmniStream 311. If not, then the pairing process will automatically be cancelled.
- 5. Release the **PAIRING** button on the OmniStream 324 after approximately 10 seconds. The **LINK** LED indicator will begin flashing. Pairing mode is now active on the OmniStream 324.

The OmniStream 311 and OmniStream 324 will begin the linking process. During the linking process, the **LINK** LED indicator on both unit may flash more slowly. This is normal behavior.

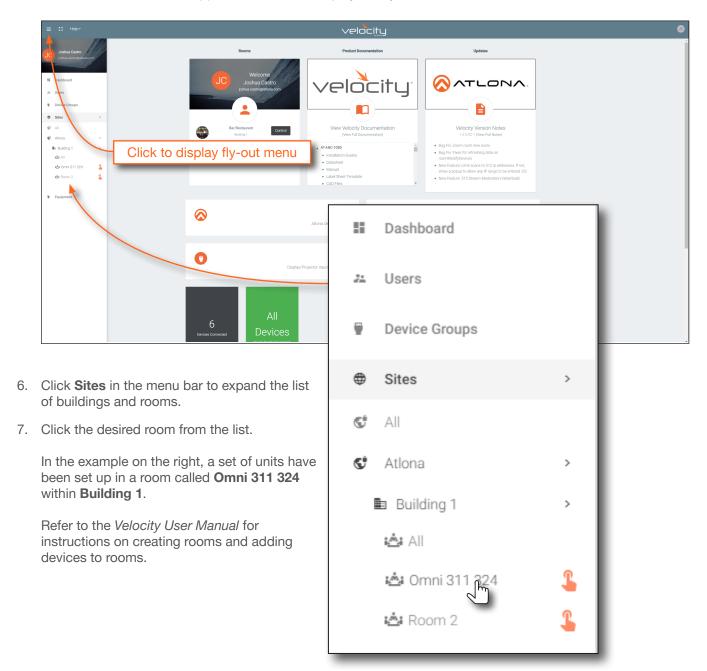
Once both LINK LED indicators are solid green, the pairing process will be complete.



Using Velocity™

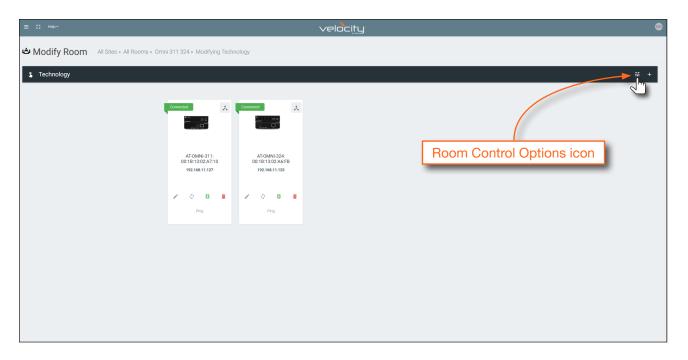
The following section provides instructions on pairing AT-OMNI-311 units with AT-OMNI-324 units using the Atlona Velocity Control Software. Familiarity with the Velocity software is assumed. Refer to the *Atlona Velocity User Manual* for more information, if necessary.

- 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 Dashboard will be displayed.
- 5. Click the icon, in the upper-left corner, to display the fly-out menu.

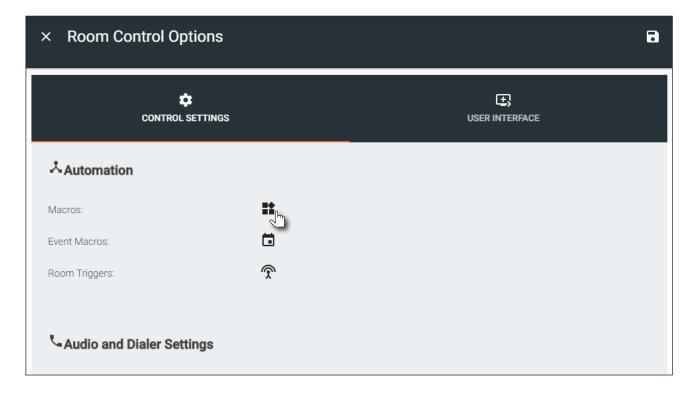




8. The **Modify Room** screen will be displayed. Click the **Room Control Options** icon, in the upper-right corner of the **Technology** bar.



9. The **Room Control Options** screen will be displayed. In order to allow units to be paired or unpaired, two macros will need be created: one for pairing and one for unpairing.



10. Click the **Macros** icon to display the **Room Macros** screen.



Creating the Unpair Macro

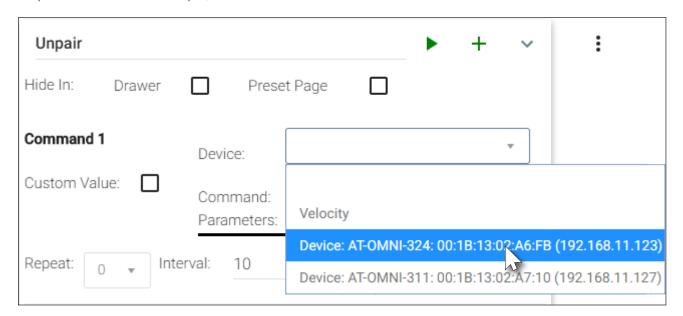
1. In the **Room Macros** screen, click the + icon, in the upper-right corner of the screen.



- 2. Enter the name of the macro in both the **Name** and **Macro Commands** text field. The name of the macro should be descriptive of what option is being performed.
- 3. Click the + icon to display the macro configuration dialog.



4. Click the **Device** drop-down list and select one of the device from this list. Since the "Unpair" macro will disconnect the two units from one another, either the AT-OMNI-311 or AT-OMNI-324 can be selected from this drop-down list. In this example, the AT-OMNI-324 is selected.



- 5. Click the **Command** drop-down list and select **Remove All Pairings**.
- 6. Repeat steps 3 through 5: when repeating theses steps, select the AT-OMNI-311 from the **Device** drop-down list.
- 7. Click the **Save** icon in the top-right portion of the **Room Macros** bar.

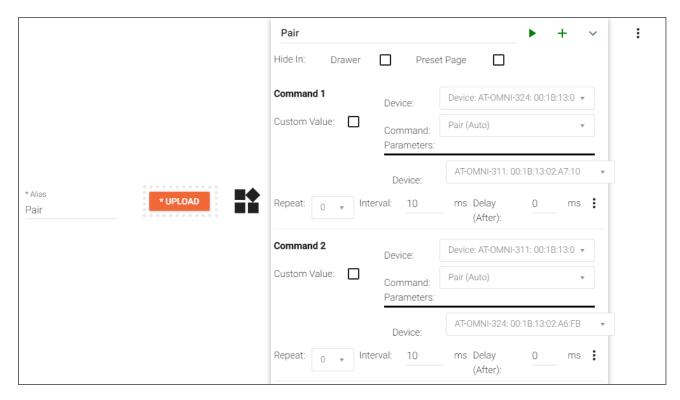


Creating the Pair Macro

1. In the **Room Macros** screen, click the **+** icon, in the upper-right corner of the screen.



- Enter the name of the macro in both the Name and Macro Commands text field. In this example, "Pair" will be used.
- 3. Click the + icon to display the macro configuration dialog.
- 4. Click the **Device** drop-down list and select the AT-OMNI-324.
- 5. Click the Command drop-down list and select Pair (Auto).
- 6. Click the second **Device** drop-down list and select the unit to be paired. Since the AT-OMNI-324 was already selected, select the AT-OMNI-311 from the drop-down list.



- 7. Repeat steps 2 through 5: For the first **Device** drop-down list, select the AT-OMNI-324, and for the second **Device** drop-down list, select the AT-OMNI-311. When this macro is completed, it should appear similar to the following:
- 8. Click the Save icon, in the top-right portion of the Room Macros bar.

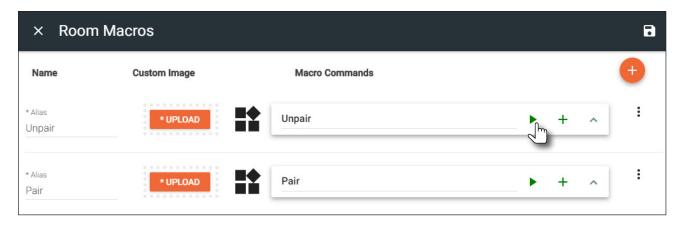


Pairing and Unpairing Units



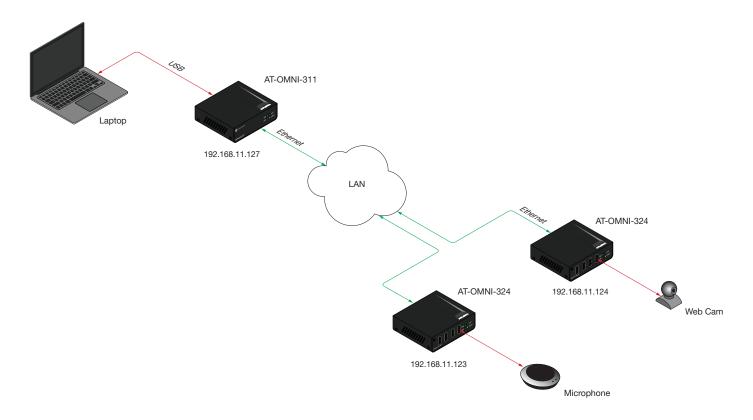
IMPORTANT: Before pairing units, make sure to unpair (remove) any existing pairings using the "unpair" macro that was created on page 19.

- 1. Click the ▶ icon for the "Unpair" macro. This will remove any possible "out-of-the-box" (factory) pairing that may exist.
- 2. Click the ▶ icon for the "Pair" macro to pair the two units.



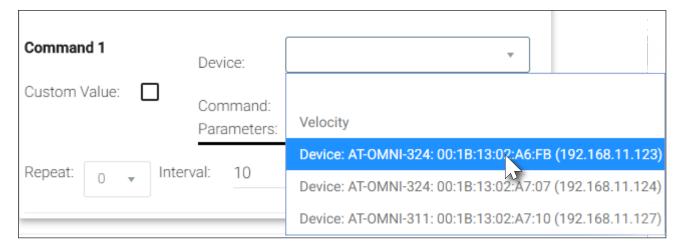
Example: Pairing two AT-OMNI-324 to a single AT-OMNI-311

The following illustration depicts an example of how to pair two AT-OMNI-324 units to a single AT-OMNI-311. Refer to the instructions on the following page for how to configure this setup. Note that arbitrary IP addresses have been assigned for reference.





- 1. In the Room Macros screen, click the + icon, in the upper-right corner of the screen.
- 2. Enter "Unpair" for both the Name and Macro Commands text field.
- 3. Click the + icon to display the macro configuration dialog.
- 4. Click the **Device** drop-down list and select one of the devices from this list. Since the "Unpair" macro will be disconnecting a total of three units from one another, the "Unpair" macro will contain a total of three commands. In this example, the AT-OMNI-324 is arbitrarily selected.



- 5. Click the Command drop-down list and select Remove All Pairings.
- 6. Repeat steps 3 through 5, selecting the second AT-OMNI-324 and then the AT-OMNI-311 from the **Device** drop-down list. When completed, the "Unpair" macro should appear as follows:





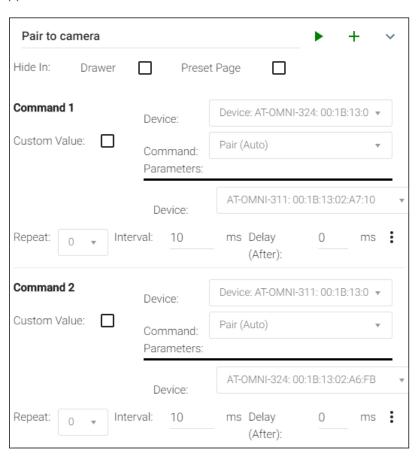
- 9. Click the **Save** icon in the top-right portion of the **Room Macros** bar.
- 10. Create a "pairing" macro by clicking the + icon, in the upper-right corner of the screen.

Note that since there are two AT-OMNI-324 units, creating the "Pair" macro can be achieved using two different methods:

- a. Create two separate macros: one to pair the AT-OMNI-311 and the AT-OMNI-324 with the camera, and another one to pair the AT-OMNI-311 with the AT-OMNI-324 with the speakerphone. This method provides more control, providing the option of which AT-OMNI-324 is paired with the AT-OMNI-311.
- b. Create a single macro which pairs both AT-OMNI-324 units to the AT-OMNI-311. This method is more convenient, but does not provide the option of which AT-OMNI-324 is paired with the AT-OMNI-311.

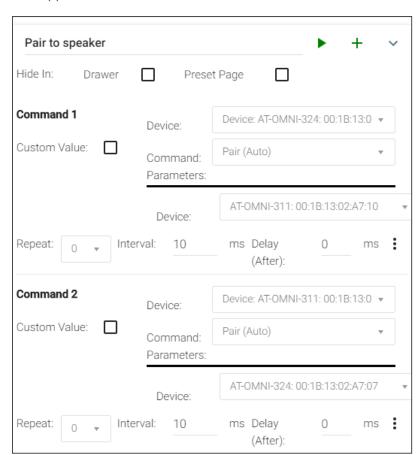
For this example, two separate pairing macros will be created:

- Enter "Pair to camera" in both the Name and Macro Commands text field. This macro will be used to pair the computer with the camera.
- 10. Click the + icon to display the macro configuration dialog.
- 11. Click the **Device** drop-down list and select the AT-OMNI-324 that is connected to the camera. In this example, the AT-OMNI-324 with the IP address of 192.168.11.124 will be selected.
- 12. Click the Command drop-down list and select Pair (Auto).
- 13. Click the second **Device** drop-down list and select the AT-OMNI-311.
- 14. Repeat steps 10 through 13: select the AT-OMNI-311 in the first **Device** drop-down list, and then the AT-OMNI-324 with the camera, from the second **Device** drop-down list. The "Pair to camera" macro should now appear as follows:





- 9. Click the **Save** icon in the top-right portion of the **Room Macros** bar.
- 10. Click the ticon, in the upper-right corner of the screen to create the final macro. This macro will be used to pair the computer with the speakerphone.
- 11. Enter "Pair to speaker" in both the Name and Macro Commands text field.
- 12. Click the + icon to display the macro configuration dialog.
- 13. Click the **Device** drop-down list and select the AT-OMNI-324 that is connected to the speakerphone. The AT-OMNI-324 with the IP address of 192.168.11.123 will be selected
- 14. Click the Command drop-down list and select Pair (Auto).
- 15. Click the second **Device** drop-down list and select the AT-OMNI-311.
- 16. Repeat steps 18 through 21: select the AT-OMNI-311 in the first **Device** drop-down list, and then the AT-OMNI-324 with the speakerphone, from the second **Device** drop-down list. The "Pair to speaker" macro should now appear as follows:



17. Click the **Save** icon in the top-right portion of the **Room Macros** bar.



Pairing and Unpairing Units



IMPORTANT: Before pairing units, make sure to unpair (remove) any existing pairings using the "Unpair" macro.

- 1. Click the ▶ icon for the "Unpair" macro. This will remove any possible "out-of-the-box" (factory) pairing that may exist.
- 2. Click the ▶ icon for the "Pair to camera" macro to pair the AT-OMNI-311 to the AT-OMNI-324 with the camera.
- 3. Click the ▶ icon for the "Pair to speaker" macro to pair the AT-OMNI-311 to the AT-OMNI-324 with the speakerphone.





The AMS Interface

Device Info tab

The **Device Info** tab provides general information about the OmniStream 324. The OmniStream 311 has an identical interface.



Alias

Enter a name for the unit in this field. This is optional. By default, this field will be assigned the model number plus the MAC address of the unit.

Model

The model number of the unit.

IP Address

Displays the IP address of the unit.

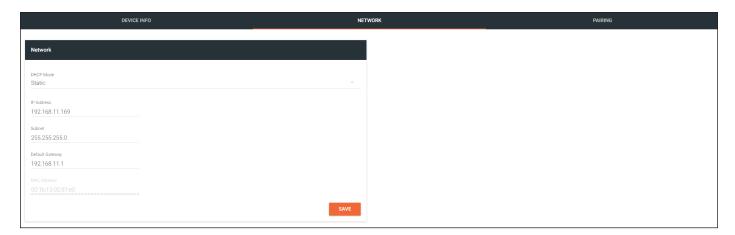
MAC Address

Displays the MAC address of the unit.



Network tab

The **Network** tab provides the ability to enable or disable DHCP mode. When DHCP mode is disabled, the IP address, subnet mask, and gateway must be provided.



DHCP Mode

Click this drop-down list to select the desired network mode. Select DHCP to let the DHCP server (if present) assign the encoder the IP settings; **Subnet** and **Gateway** fields will automatically be populated. When **Static** mode is selected, the information for the **IP Address**, **Subnet**, and **Gateway** fields must be entered.

IP Address

Displays the IP address used by the channel. This field can only be changed if Static mode is selected.

Subnet

Displays the subnet mask for the channel. This field can only be changed if Static mode is selected.

Gateway

Displays the gateway (router) address for the channel. This field can only be changed if **Static** mode is selected.

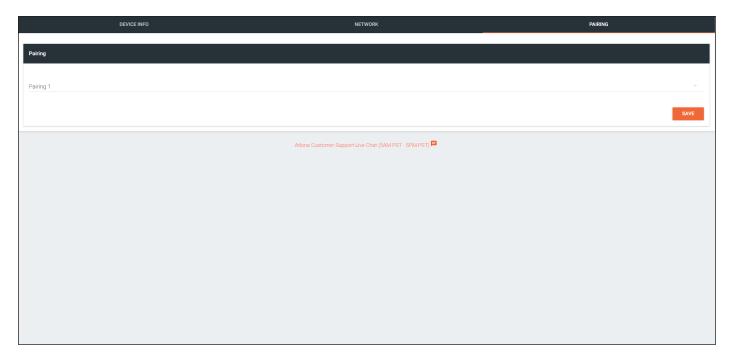
MAC Address

The MAC address of the Ethernet channel.



Pairing tab

The **Pairing** tab provides the ability to pair the OmniStream 324 with a OmniStream 311 device. Up to seven OmniStream 324 units can be paired to an OmniStream 311.



Pairing 1

Click this drop-down list to pair the OmniStream 324 with the desired OmniStream 311. To unpair an OmniStream 324 and an OmniStream 311, select the **None** option. Refer to Pairing (page 13) for more information.



Appendix

Mounting Instructions

The AT-OMNI-324 includes two mounting brackets, which can be used to attach the units to any flat surface.

1. Remove the two enclosure screws, on both sides of the unit, using a small Phillips-head screwdriver.



- 2. Position one of the mounting brackets, as shown below, aligning the holes on the side of the enclosure with one set of holes on the mounting bracket.
- 3. Attach the mounting brackets using the enclosure screws from Step 1.



4. Mount the unit using the oval-shaped holes, on each mounting bracket. If using a drywall surface, a #6 drywall screw is recommended.



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NOTE: The unit can also be mounted under a table or other flat surface.



Specifications

Connectors, Controls, and Indicators						
USB	4 - Type A, 4-pin female					
LAN	1 - RJ45, shielded					
UTILITY	1 - 3.5 mm mini-stereo					
PAIRING	1 - Push button, tact-type, recessed					
PWR indicator	1 - LED, green					
LINK indicator	1 - LED, green					
HOST indicator	1 - LED, green	1 - LED, green				
SIGNAL indicator	1 - LED, green					
Distance	Feet	Meters				
Per hop of Ethernet cable	330	100				
USB						
Signal	2.0					
Maximum Data Rate	480 Mbps					
Temperature	Fahrenheit	Celsius				
Operating	32 to 122	0 to 50				
Storage	-20 to 70	-4 to 158				
Humidity						
Operating (RH)	20% to 80% (non-condensing)					
Storage (RH)	10% to 90% (non-condensing)					
Dimensions	Inches	Millimeters				
H x W x D	1.04 x 3.92 x 3.01	26.40 x 99.50 x 76.45				
Weight	Pounds	Kilograms				
Device	0.50	0.23				
Certifications						
Device	CE, FCC, RoHS					



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