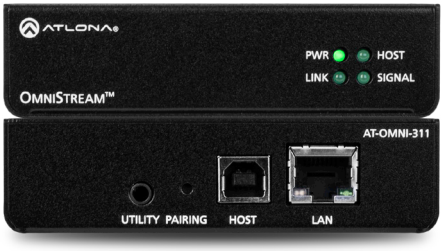
USB over IP Adapter for Host Device

AT-OMNI-311



The Atlona OmniStream™ USB 311 (**AT-OMNI-311**) works in tandem with the OmniStream USB 324 (AT-OMNI-324) for extending USB from peripheral devices to a PC over Gigabit Ethernet. The OmniStream USB 311 interfaces with a PC or other host device, while the OmniStream USB 324 features a four-port USB hub for peripherals. 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, speaker phones, microphones, and DSPs, plus standard USB HID class devices such as a keyboard, mouse, or touch display. Up to seven OmniStream USB 324 units can be simultaneously paired to an OmniStream USB 311. Additionally, USB routing over the network can be managed using Atlona Management System (AMS) 2.0.

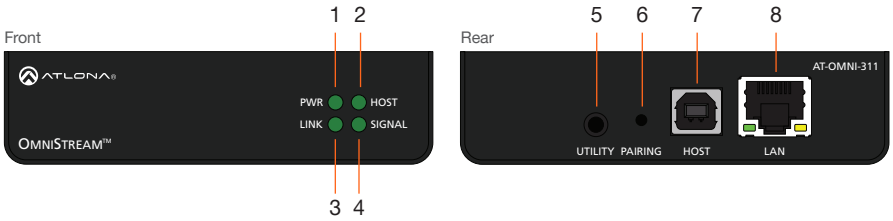
OmniStream USB products can be used in a wide variety of system design scenarios for soft codec conferencing and remote keyboard / mouse control. They are ideal for integrating USB audio and video devices as part of a fully IP-based meeting room system - in conjunction with OmniStream AV over IP devices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

Package Contents

1 x AT-OMNI-311
2 x Mounting brackets
1 x Installation Guide

IMPORTANT: Visit http://www.atlona.com/product/AT-OMNI-311 for the latest firmware updates and Installation Guide.

Panel Descriptions



1 **PWR**
This LED indicator glows solid green when the unit is powered. This unit is powered by the host device using USB. No external power supply is required. Refer to LED Indicators (page 6) for more information.

2 **HOST**
This LED indicator glows green when a USB host device is connected to the unit. Refer to LED Indicators (page 6) for more information.

3 **LINK**
This LED indicator is solid green when a solid connection between this unit and the receiver has been established. Refer to LED Indicators (page 6) for more information.

4 **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 6) for more information.

5 **UTILITY**
This port is for factory programming.

6 **PAIRING**
Press this button to begin the pairing process.

7 **HOST**
Connect a USB type-B connector from this port to the host computer.

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

Mounting Instructions

The AT-OMNI-311 includes two mounting brackets, which can be used to attach the units to any flat surface.

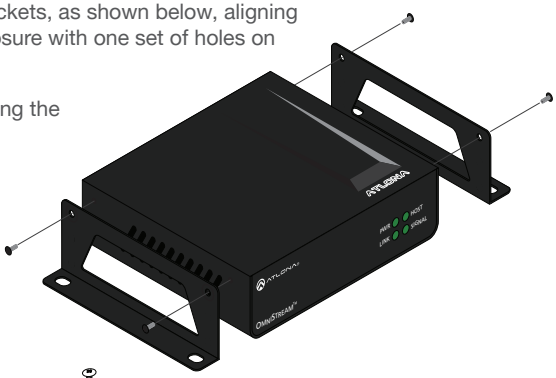
1. Remove the two enclosure screws, on both sides of the unit, using a small Phillips-head screwdriver.



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.





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

Installation

IMPORTANT: All network switch ports these devices are connected to should be configured as spanning tree edge ports or have the port configured with spanning tree PortFast enabled (depending on the switch manufacturer).

1. Place the AT-OMNI-311 next to the USB host device and connect a USB cable from the **HOST** port to the host computer.

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

   Over Network

   a. Connect an Ethernet cable, up to 330 feet (100 meters), from the **LAN** port on the AT-OMNI-311 to the network switch.

   b. Connect an Ethernet cable, up to 330 feet (100 meters), from the receiver (AT-OMNI-324; 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

   a. Connect an Ethernet cable, up to 330 feet (100 meters), from the LAN port of the AT-OMNI-311 directly to the AT-OMNI-324 (not included).

2. The AT-OMNI-311 is powered by the host computer. No external power supply is required.
3. Refer to the Installation Guide for the AT-OMNI-324 for additional connection instructions and the User Manual for detailed information.
4. Refer to the User Manual for instructions on pairing a transmitter and receiver.

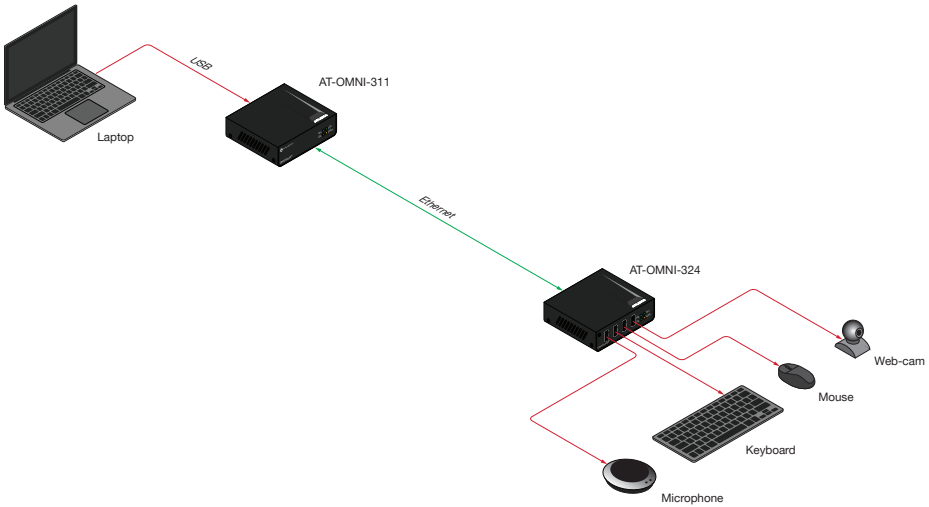
Velocity™ Device Manager

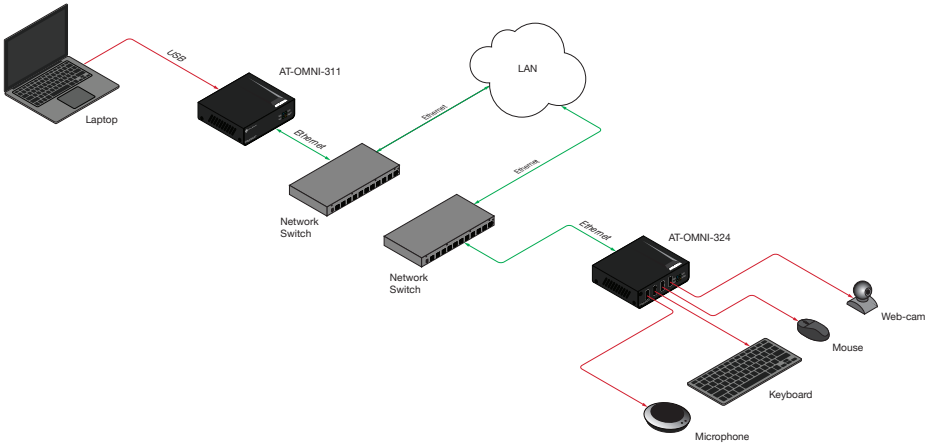
For easy configuration of Atlona devices, Velocity Device Manager is available from https://atlona.com/product/at-vdm-sw/ for free.

Once Velocity Device Manager has been set up:

1. Open a browser on the same network as Velocity Device Manager and go to the IP of Velocity Device Manager. View the installation instructions on how to find the IP of the software, if necessary.
2. Enter the login information on the Velocity Device Manager web page, then click the **Login** button.
3. View the AT-OMNI-311 manual for additional configuration information.

Connection Diagram





LED Indicators

The **PWR**, **LINK**, **HOST**, and **SIGNAL** LED indicators on the transmitter provide basic information on the current status of the AT-OMNI-311. The information in the table below applies to both the transmitter and receiver unit.

PWR	Description
Solid green	Unit is powered.
Off	Unit is not powered. • Verify that a USB Type-B cable is connected from the HOST port to the host computer.

LINK	Description
Solid green	The link integrity between the transmitter and the receiver is good.
Blinking green (slow)	The transmitter is attempting to establish a link to the receiver.
Blinking green (fast)	The transmitter is in Pairing Mode.
Off	There is no link between the transmitter and the receiver. • **Direct Mode:** Verify that an Ethernet cable is connected between the **LAN** port on the sender and the receiver. • **Network Mode:** Verify that an Ethernet cable is connected between the **LAN** port on the sender 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	Description
Solid green	The transmitter is properly enumerated on the host computer.
Blinking green	The transmitter is in a suspended state.

SIGNAL	Description
Blinking green	This LED indicator will blink intermittently when data is being transmitted between the transmitter and the receiver.
Off	The transmitter is in Suspend Mode.

Notes

Warranty

To view the product warranty, use the following link or QR code:
https://atlona.com/warranty/.

English Declaration of Conformity

The English version can be found under the resources tab at:
https://atlona.com/product/at-omni-311/.

Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:
https://atlona.com/about-us/china-rohs/.

US atlona.com • 408.962.0515
International • 41.43.508.4321

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