

## USB to IP Adapter for Peripheral Devices



#### 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.

### **Applications**

- Huddle rooms
  - OmniStream USB products provide a streamlined videoconferencing solution that interfaces a PC with a PTZ camera (such as the AT-HDVS-CAM), as well as USB audio peripherals.
- Meeting rooms
  - OmniStream USB products are ideal for interfacing a wall-mounted touch display with a laptop at the meeting table.

AT-OMNI-324 1



# USB to IP Adapter for Peripheral Devices

#### **Key Features**

- Extend USB over Gigabit Ethernet using 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<sup>™</sup> 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.

AT-OMNI-324 2



# USB to IP **Adapter for Peripheral Devices**

### **Specifications**

USB		
Signal	2.0	
Maximum Data Rate	480 Mbps	
Distance	Feet	Meters
Distance  Per hop of Ethernet cable	330	100
rei hop of Ethernet cable	330	100
Connectors, Controls, and Indicators		
USB	4 - Type A, 4-pin female	
LAN	1 - RJ45, shielded	
UTILITY	1 - 3.5 mm mini-stereo	
DC 24V	1 - 2.1 x 5.5 mm DC power connector	
PAIRING	1 - Push button, tact-type, recessed	
PWR indicator	1 - LED, green	
LINK indicator	1 - LED, green	
HOST indicator	1 - LED, green	
SIGNAL indicator	1 - LED, green	
Temperature	Fahrenheit	Celsius
Temperature Operating	Fahrenheit 32 to 122	Celsius 0 to 50
Temperature Operating Storage		
Operating Storage	32 to 122	0 to 50
Operating Storage Humidity	32 to 122 -20 to 70	0 to 50
Operating Storage  Humidity Operating (RH)	32 to 122 -20 to 70 20% to 80% (non-condensing)	0 to 50
Operating Storage Humidity	32 to 122 -20 to 70	0 to 50
Operating Storage  Humidity Operating (RH)	32 to 122 -20 to 70 20% to 80% (non-condensing)	0 to 50
Operating Storage  Humidity Operating (RH) Storage (RH)	32 to 122 -20 to 70 20% to 80% (non-condensing)	0 to 50
Operating Storage  Humidity Operating (RH) Storage (RH)  Power Supply	32 to 122 -20 to 70 20% to 80% (non-condensing) 10% to 90% (non-condensing) 24 V DC, 0.75 A	0 to 50 -4 to 158
Operating Storage  Humidity Operating (RH) Storage (RH)  Power Supply  Dimensions	32 to 122 -20 to 70  20% to 80% (non-condensing) 10% to 90% (non-condensing)  24 V DC, 0.75 A  Inches	0 to 50 -4 to 158  Millimeters
Operating Storage  Humidity Operating (RH) Storage (RH)  Power Supply	32 to 122 -20 to 70 20% to 80% (non-condensing) 10% to 90% (non-condensing) 24 V DC, 0.75 A	0 to 50 -4 to 158
Operating Storage  Humidity Operating (RH) Storage (RH)  Power Supply  Dimensions	32 to 122 -20 to 70  20% to 80% (non-condensing) 10% to 90% (non-condensing)  24 V DC, 0.75 A  Inches	0 to 50 -4 to 158  Millimeters
Operating Storage  Humidity Operating (RH) Storage (RH)  Power Supply  Dimensions H x W x D	32 to 122 -20 to 70  20% to 80% (non-condensing) 10% to 90% (non-condensing)  24 V DC, 0.75 A  Inches  1.04 x 3.92 x 3.01	0 to 50 -4 to 158  Millimeters 26.40 x 99.50 x 76.45
Operating Storage  Humidity Operating (RH) Storage (RH)  Power Supply  Dimensions H x W x D  Weight Device	32 to 122 -20 to 70  20% to 80% (non-condensing) 10% to 90% (non-condensing)  24 V DC, 0.75 A  Inches 1.04 x 3.92 x 3.01  Pounds	0 to 50 -4 to 158  Millimeters 26.40 x 99.50 x 76.45  Kilograms
Operating Storage  Humidity Operating (RH) Storage (RH)  Power Supply  Dimensions H x W x D  Weight	32 to 122 -20 to 70  20% to 80% (non-condensing) 10% to 90% (non-condensing)  24 V DC, 0.75 A  Inches 1.04 x 3.92 x 3.01  Pounds	0 to 50 -4 to 158  Millimeters 26.40 x 99.50 x 76.45  Kilograms

<sup>© 2020</sup> Atlona Inc. All rights reserved. "Atlona" and the Atlona logo are registered trademarks of Atlona Inc. All other brand names and trademarks or registered trademarks are the property of their respective owners. Pricing, specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here.