

## IP to RS-232 Command Converter for Velocity Control System

AT-VCC-RS232-KIT



The Atlona AT-VCC-RS232-KIT is an accessory for the Atlona Velocity™ Control System that provides conversion between IP and RS-232 control commands. This Velocity Control Converter is very compact and can be placed anywhere a device requires control and is not IP-capable. The VCC-RS232-KIT is remotely powered through Power over Ethernet (PoE), or locally from a USB power source. The primary unit installs onto any surface via a convenient mounting dock. A simple “click” locks it into place for a secure, reliable installation. An RS-232 gender changer is included.

### Package Contents

1 x AT-VCC  
1 x AT-VCC-RS232

### Operating Notes

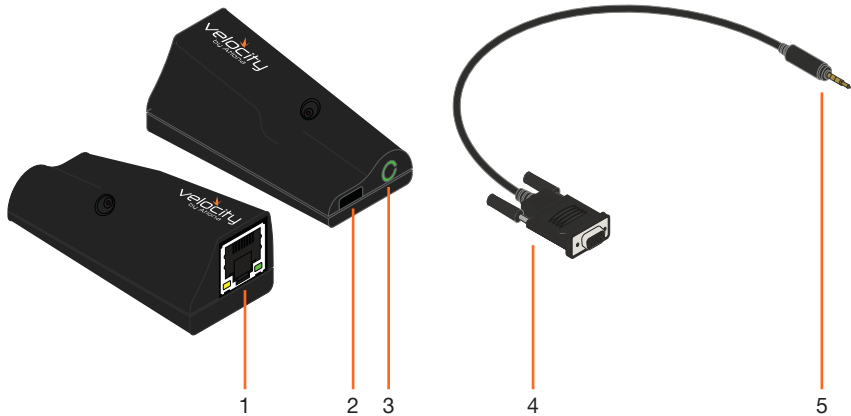
- The Velocity Command Converter must be on the same network as the Velocity Gateway (AT-VGW-HW) or it will be unable to sync for control.
- The AT-VCC-RS232-KIT is PoE, to power the unit, simply plug it into a PoE compatible network switch. If the network switch is not PoE capable, a PoE injector (purchased separately) or USB can be used.
- All devices (AT-VCC, Velocity, AT-VTP, switchers, etc) should be set to static IPs or the DHCP IP address reserved for each individual device.



**IMPORTANT:** Velocity Gateway (AT-VGW-HW) must be set up before the AT-VCC-RS232-KIT is fully functional.



## Panel Description



### 1 Ethernet

Connect an Ethernet cable from this port to the same network as the Velocity Gateway .

### 2 USB

Not used at this time.

### 3 3.5mm Port

Connect to a VCC RS-232 3.5mm connector.

### 4 RS-232 Connector

Connect the RS-232 connector into the RS-232 port of the controlled device.

### 5 3.5mm Connector

Connect the 3.5mm connector to the 3.5mm port of the VCC.

## RS-232

The VCC RS-232 comes with a 3.5mm to DB9 adapter. To ensure the signal passes correctly, verify the pins match the device connecting to. The pin out is found below.



### Data

Pin 2 - RX  
Pin 3 - TX  
Pin 5 - Ground

### Data Flow Control

Pin 7 - RTS  
Pin 8 - CTS

### Modem Control

Pin 4 - DTR  
Pin 6 - DSR

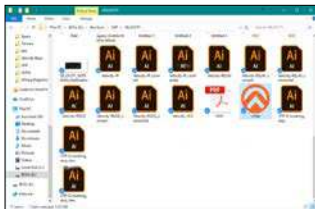
## IP

The AT-VCC is set to DHCP by default. If the network does not support DHCP, it will automatically set the AT-VCC to the static IP of 192.168.1.70 after 30 seconds.

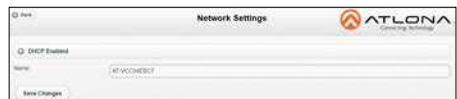
## VHelp and webGUI

Velocity will find the VCC when scan network is used, but if the VCC needs to be set up off site first, the software VHelp can be used.

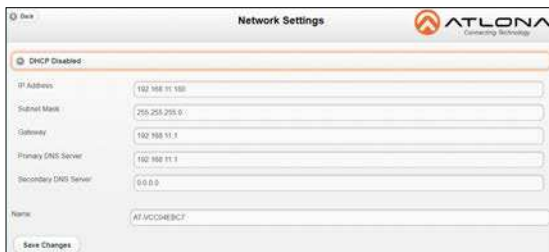
- 1 Connect the RS-232 connector into the 3.5mm port on the unit.
- 2 Connect the AT-VCC to a network switch (PoE is best if a PoE switch is not available, a power injector or mini USB to USB cable may be used).
- 3 Download VHelp from the resource tab of <https://atlona.com/product/AT-VCC-RS232-KIT>.
- 4 Unzip the file to the local PC
- 5 Double-click the VHelp executable to open the program. Vhelp will start discovery as soon as the program is opened.



- 6 Double click on the VCC (to determine the correct one, look on the bottom of the VCC for the MAC address). The PC default browser will open to the AT-VCC webGUI.



- 7 Select Network Settings to open the IP configuration page.
- 8 Select the DHCP Enabled header, this will disable DHCP and allows IP settings to be edited.



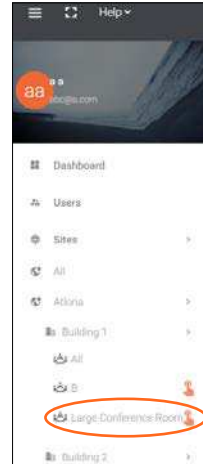
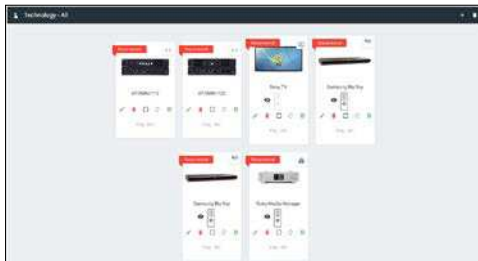
- 9 Type in the IP details to match the network details of the Gateway. e.g. If the Velocity gateway is located at the IP of 192.168.12.15, then the VCC should be set to an IP within the 192.168.12.XXX range that has not already been used.

- 10 Press the Save Changes button. If the IP was changed, the browser will redirect to the general 'Page Not Found' page.

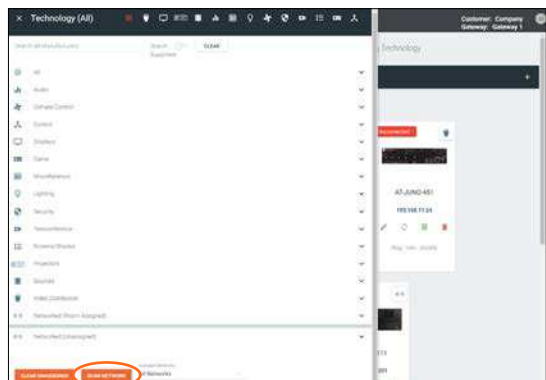


**NOTE:** Connecting the VCC to Velocity can only be done once Velocity has been set up. View the Velocity Manual for instructions.

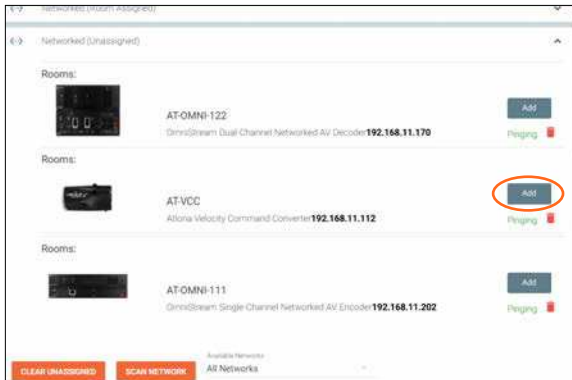
- 11 Open any browser on the network and type in the IP address of Velocity.
- 12 Select the = button from the top left corner and select **Sites**.



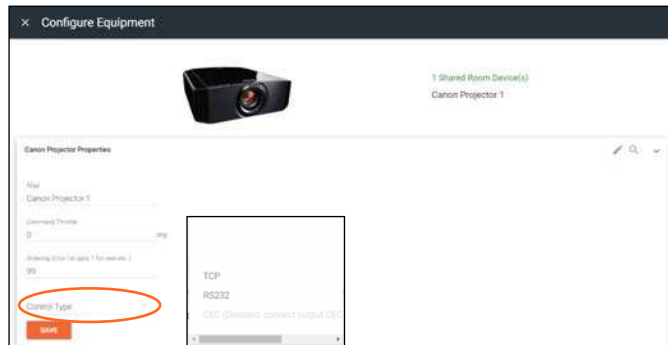
- 13 Select the building that corresponds with the room of the VCC.
- 14 Select the room the VCC is located in. A new screen will take over the window and display the technology in the room.
- 15 Select the + button located at the top right corner of the room. A new menu will open.



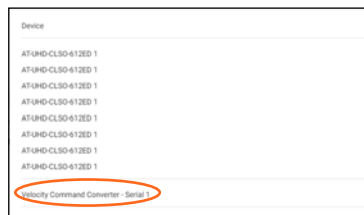
- 16 Press the scan network button. All Atlona devices found will appear in the unassigned list.
- 17 Select the Add button next to the VCC. A new pop up will appear.



- 18 Select the **VCC Serial** from the drop down menu.
- 19 Press the **ADD VCC TO ROOM** button. A VCC tile will appear in the room.
- 20 Select edit on the controlled device's tile.



- 21 Select **RS232** from the Control Type drop down menu.
- New fields will appear with baud settings. These options should be auto-filled with the device's parameters. If the parameters have changed or are incorrect, they can be updated.
- 22 Select **Velocity Command Converter** from the RS232 Connection drop down menu.
  - 23 Press the **SAVE** button.



Velocity will automatically set the Velocity Command Converter to the correct baud parameters when the save button is pressed.

**NOTE:** If for some reason the unit isn't syncing or the settings aren't being set, they can be set up manually through the VCC webGUI.

- Type the VCC's IP into a web browser to open the Velocity Command Converter Configuration.
- Select **Velocity Control Cable** from the two options.



- Select **Serial** from the drop down menu.



- Fill in the controlled device's RS-232 parameters: Baud Rate, Flow Control, Parity, Data Bits, and Stop Bits.



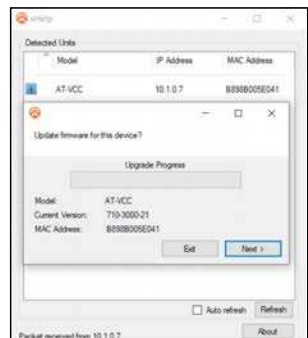
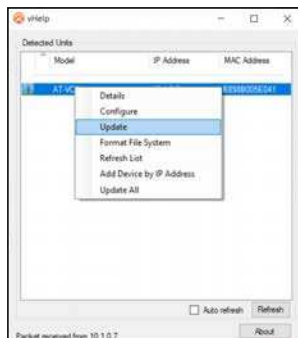
**NOTE:** The RS-232 parameters should match the controlled device. Verify the parameters using the source or display's manual.

- Select **Save Configuration**. The VCC is now set up and ready to use.

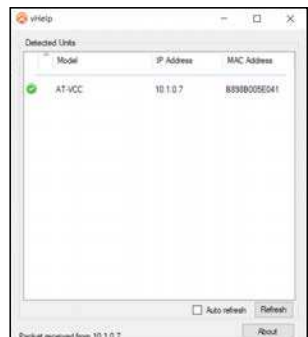
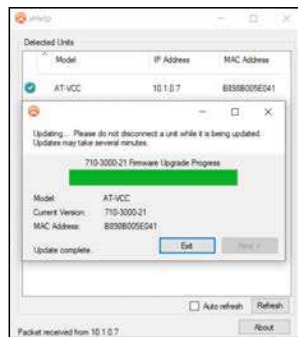
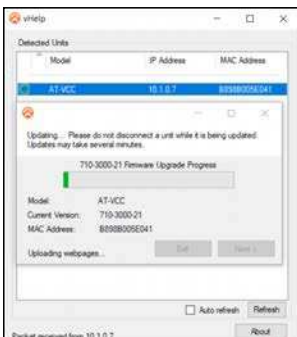
## Firmware Update

To update the VCC the most recent vHelp software will be needed. The vHelp has the firmware built into the software and will automatically detect if the VCC is on the most recent firmware.

- 1 Connect the AT-VCC to a network switch (PoE is best if a PoE switch is not available, a power injector or mini USB to USB cable may be used).
- 2 Download VHelp from the resource tab of <https://atlona.com/product/AT-VCC-RS232-KIT>.
- 3 Unzip the file to the local PC
- 4 Double-click the VHelp executable to open the program. Vhelp will start discovery as soon as the program is opened.
- 5 Once the unit is found, if it is out of date an exclamation mark will display next to it. Right click to open the drop down menu.
- 6 Select Update from the drop down list. A new pop up will appear.



- 7 Press the Next button to start the update. The progress bar will cycle through green. This process can take up to 2 minutes.
- 8 Once the update is complete, press Exit. The unit will now show a green check mark next to it to show the unit is up to date.



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

### **Coverage**

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.

Under its Limited Product Warranty, Atlona, at its sole discretion, will either:

- repair or facilitate the repair of defective products within a reasonable period of time, restore products to their proper operating condition and return defective products free of any charge for necessary parts, labor and shipping.

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.

OR

- refund the pro-rated value based on the remaining term of the warranty period, not to exceed MSRP, in cases where products are beyond repair and/or no direct or substantially similar replacement products exist.

Repair, replacement or refund of Atlona products is the purchaser's exclusive remedy and Atlona liability does not extend to any other damages, incidental, consequential or otherwise.

This Limited Product Warranty extends to the original end-user purchaser of Atlona products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

### **Coverage Periods**

Atlona Limited Product Warranty Period begins on the date of purchase by the end-purchaser. The date contained on the end-purchaser's sales or delivery receipt is the proof purchase date.

### **Limited Product Warranty Terms – New Products**

- 10 years from proof of purchase date for hardware/electronics products purchased on or after June 1, 2013.
- 3 years from proof of purchase date for hardware/electronics products purchased before June 1, 2013.
- Lifetime Limited Product Warranty for all cable products.

### **Limited Product Warranty Terms – Refurbished (B-Stock) Products and Discontinued Products**

- 3 years from proof of purchase date for all Refurbished (B-Stock) and Discontinued hardware and electronic products purchased on or after June 1, 2013.

## **Atlona, Inc. ("Atlona") Limited Product Warranty Cont.**

### **Remedy**

Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products. Atlona can also be contacted directly. Visit [www.atlona.com](http://www.atlona.com) for Atlona's contact information and hours of operation. Atlona requires that a dated sales or delivery receipt from an authorized dealer, reseller or end-purchaser is provided before Atlona extends its warranty services. Additionally, a return merchandise authorization (RMA) and/or case number, is required to be obtained from Atlona in advance of returns.

Atlona requires that products returned are properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization or case number will be refused. Atlona, at its sole discretion, reserves the right to reject any products received without advanced authorization. Authorizations can be requested by calling 1-877-536-3976 (US toll free) or 1-408- 962-0515 (US/international) or via Atlona's website at [www.atlona.com](http://www.atlona.com).

### **Exclusions**

This Limited Product Warranty excludes:

- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packaging or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.
- Damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Atlona to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.
- Equipment enclosures, cables, power supplies, batteries, LCD displays, and any accessories used in conjunction with the product(s).
- Products purchased from unauthorized distributors, dealers, resellers, auction websites and similar unauthorized channels of distribution.

### **Disclaimers**

This Limited Product Warranty does not imply that the electronic components contained within Atlona's products will not become obsolete nor does it imply Atlona products or their electronic components will remain compatible with any other current product, technology or any future products or technologies in which Atlona's products may be used in conjunction with. Atlona, at its sole discretion, reserves the right not to extend its warranty offering in instances arising outside its normal course of business including, but not limited to, damage inflicted to its products from acts of god.

### **Limitation on Liability**

The maximum liability of Atlona under this limited product warranty shall not exceed the original Atlona MSRP for its products. To the maximum extent permitted by law, Atlona is not responsible for the direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

**Atlona, Inc. ("Atlona") Limited Product Warranty Cont.****Exclusive Remedy**

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**Other Conditions**

Atlona's Limited Product Warranty offering gives legal rights, and other rights may apply and vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of products have been removed or defaced, (ii) products are not purchased from an authorized Atlona dealer or reseller. A comprehensive list of Atlona's authorized distributors, dealers and resellers can be found at [www.atlona.com](http://www.atlona.com).



## Notes



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