

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

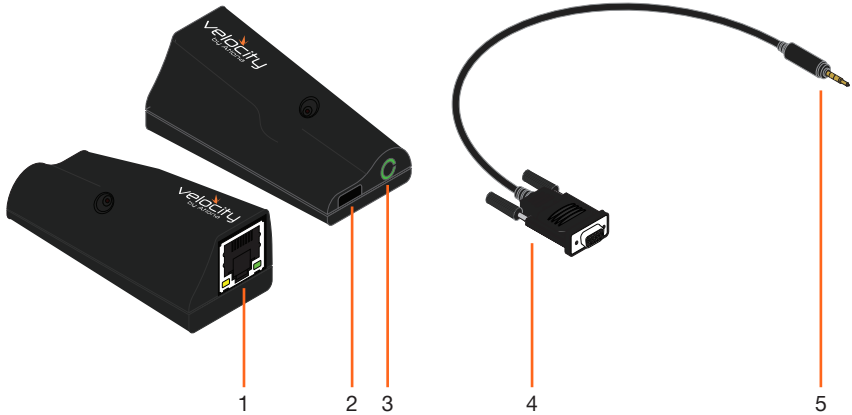
- The Velocity Command Converter must be on the same network as the Velocity Gateway (AT-VGW-250) or it will be unable to sync for control.
- The AT-VCC-RS232-KIT is PoE, to power the unit, simply plug it into a PoE compatible network switch. If the network switch is not PoE capable, a PoE injector (purchased 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-250) 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.

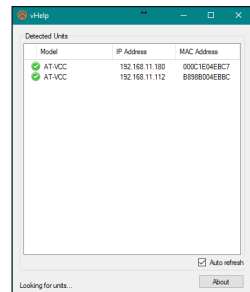
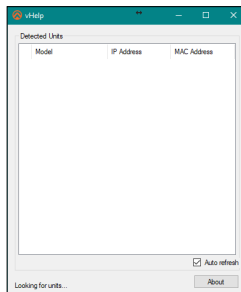
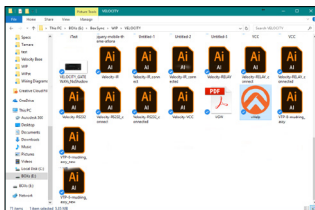
IP

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.

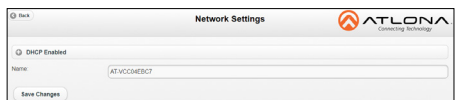
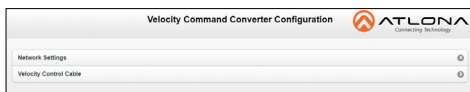
VHelp and webGUI

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.

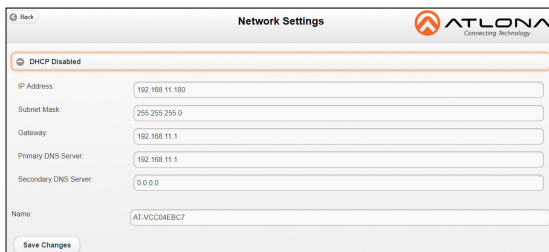
- 1 Connect the RS-232 connector into the 3.5mm port on the unit.
- 2 Connect the AT-VCC to a network switch (PoE is best if a PoE switch is not available, a power injector or mini USB to USB cable may be used).
- 3 Download VHelp from the resource tab of <http://atlon.com/AT-VCC-IR-KIT>.
- 4 Unzip the 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.

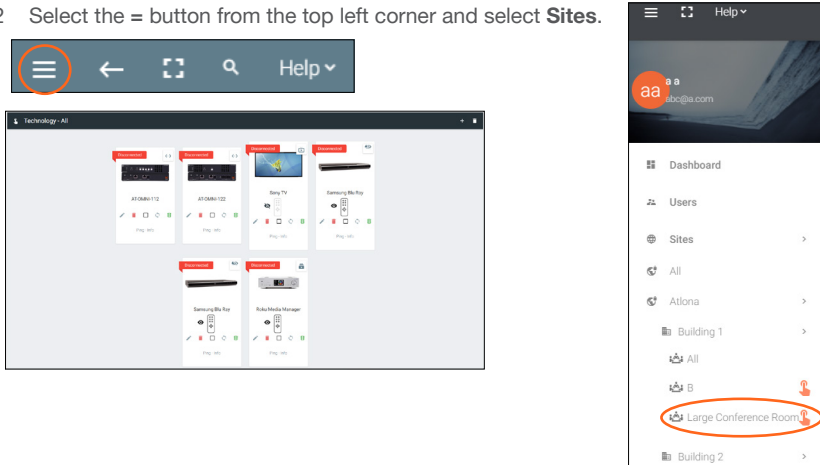


- 9 Type in the IP details to match the network details of the Gateway. e.g. If the Velocity gateway is located at the IP of 192.168.12.15, then the VCC should be set to an IP within the 192.168.12.XXX range that has not already been used.

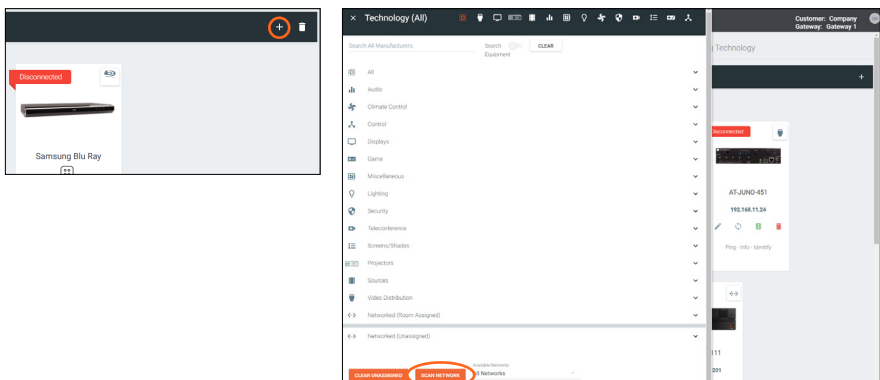
- Press the Save Changes button. If the IP was changed, the browser will redirect to the general 'Page Not Found' page.

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

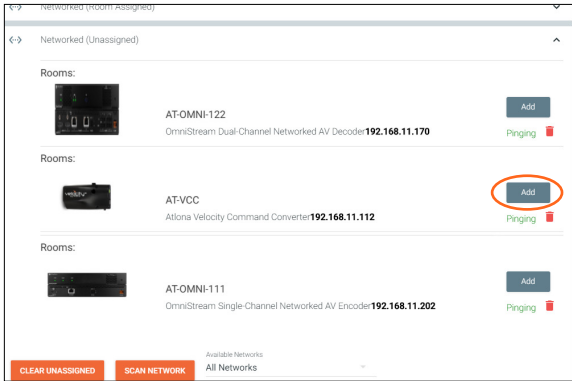
- Open any browser on the network and type in the IP address of Velocity.
- Select the = button from the top left corner and select **Sites**.



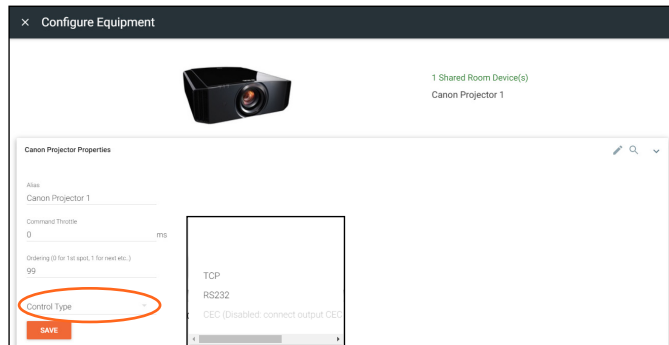
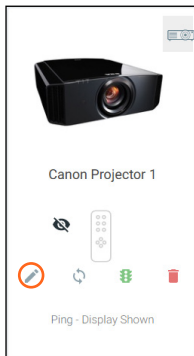
- Select the building that corresponds with the room of the VCC.
- Select the room the VCC is located in. A new screen will take over the window and display the technology in the room.
- Select the + button located at the top right corner of the room. A new menu will open.



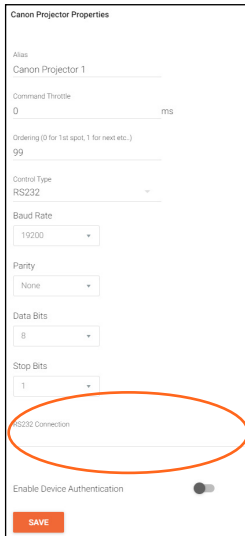
- Press the scan network button. All Atlona devices found will appear in the unassigned list.
- Select the Add button next to the VCC. A new pop up will appear.



- 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.



Canon Projector Properties

Alias
Canon Projector 1

Command Throttle
0 ms

Ordering (0 for 1st spot, 1 for next etc.)
99

Control Type
RS232

Baud Rate
19200

Parity
None

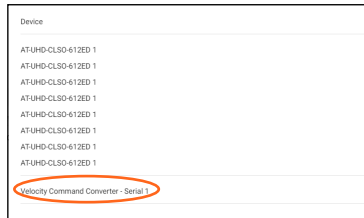
Data Bits
8

Stop Bits
1

RS232 Connection

Enable Device Authentication

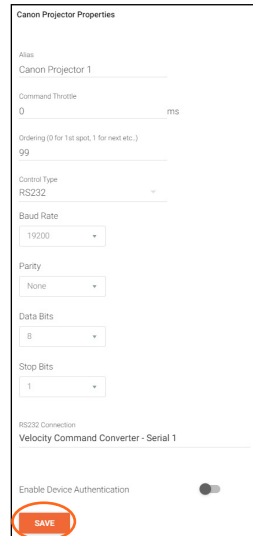
SAVE



Device

ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1
ATUHD-CLS0-612ED 1

Velocity Command Converter - Serial 1



Canon Projector Properties

Alias
Canon Projector 1

Command Throttle
0 ms

Ordering (0 for 1st spot, 1 for next etc.)
99

Control Type
RS232

Baud Rate
19200

Parity
None

Data Bits
8

Stop Bits
1

RS232 Connection
Velocity Command Converter - Serial 1

Enable Device Authentication

SAVE

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.



Velocity Command Converter Configuration

ATLONA Connecting Technology

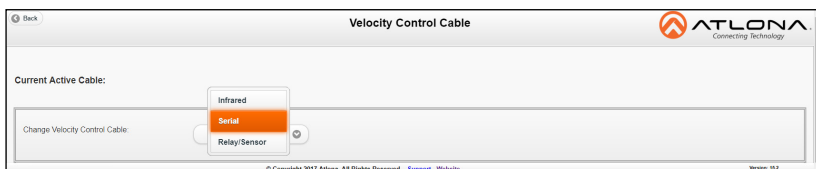
Network Settings

Velocity Control Cable

Firmware version: 710-3000-20

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



Back

Velocity Control Cable

ATLONA Connecting Technology

Current Active Cable:

Change Velocity Control Cable:

Infrared
Serial
Relay/Sensor

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



The screenshot shows the 'Velocity Control Cable' configuration page. At the top, it says 'Current Active Cable: Serial'. Below that, there's a 'Change Velocity Control Cable' section with a dropdown menu set to 'Serial'. The main section is 'Serial Cable Configuration' with the following settings:

- Cable Type: RS232
- Baud Rate: 19200
- Flow Control: None (selected), Hardware
- Duplex: Half (selected), Full
- Parity: None (selected), Even, Odd
- Data Bits: 8
- Stop Bits: 1, 2
- Gender Changer: True (selected), False

Below the Gender Changer, there is a note: 'Enables internal crossover'. At the bottom left of the configuration area is a 'Save Configuration' button. The footer contains copyright information: '© Copyright 2017 Atlona. All Rights Reserved. Support Website' and 'Version: v1.2'.

 **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.



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