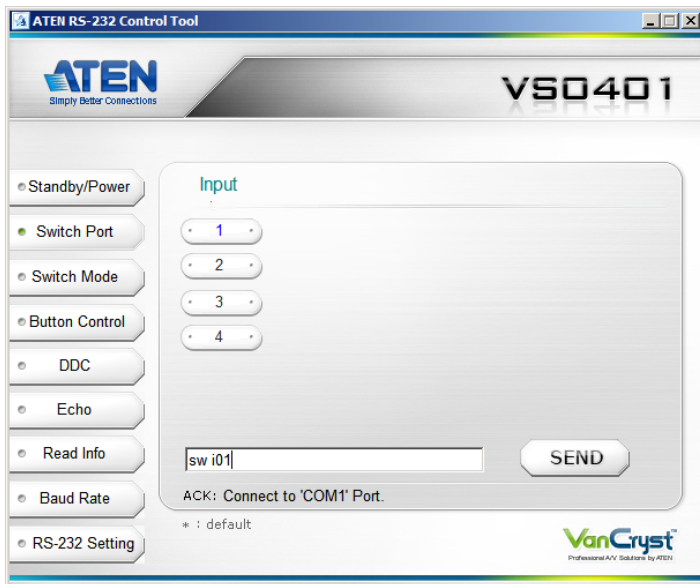# VS0201 / VS0401

2/4-Port VGA Switch with Audio

RS-232 Control Tool

V1.0.064

User Manual

FCC Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RoHS

This product is RoHS compliant.

SJ/T 11364-2006

The following contains information that relates to China.

部件名称	有毒有害物质或元素					
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
电器部件	●	○	○	○	○	○
机构部件	○	○	○	○	○	○

○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求之下。

●: 表示符合欧盟的豁免条款，但该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

✕: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006的限量要求。

RS-232 Control Tool Operation

Overview

The VS0201 / VS0401's built-in bi-directional RS-232 serial interface allows system control through a high-end controller, PC, and/or home automation / home theater software package. The RS-232 Control Tool is an application used to send operational commands from your PC – to the VS0201 / VS0401 through a serial (RS-232) interface connection. RS-232 serial operations to and from the VS0201 / VS0401 can be managed using ATEN's Graphical User Interface (GUI) on computers that are running the Microsoft Windows operating system. In order to use the RS-232 Control Tool, two separate programs must be installed on the PC- .NET Framework 2.0 and the RS-232 Control Tool. The procedure for installing and operating the RS-232 Control Tool is detailed in the following section.

Before You Begin

Installing .NET Framework 2.0

To install .NET Framework on your PC, do the following:

1. Download the executable file from the ATEN website or the Microsoft Download Center online, and run it.

2. Follow the instructions on the screen. The installation applet will automatically detect the operating system and install the correct drivers

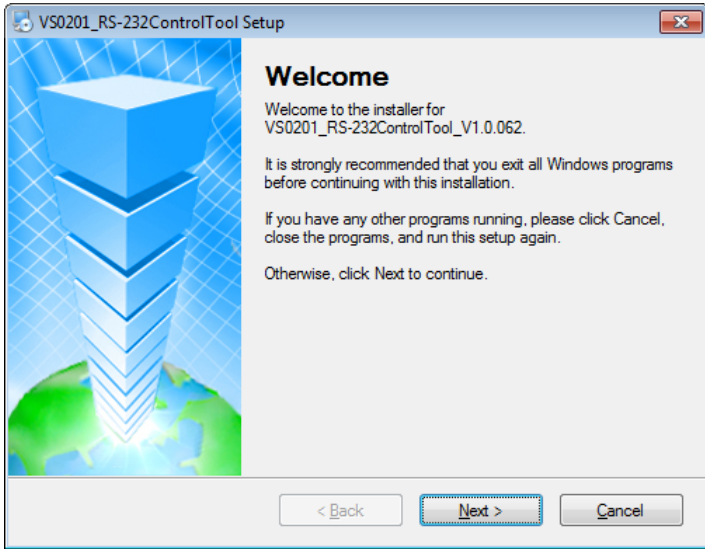### Installing the RS-232 Control Tool

To install the RS-232 Control Tool, do the following:

1. Download the RS-232 Control Tool from the Download or VS0201 / VS0401's *Resource* page on our website:
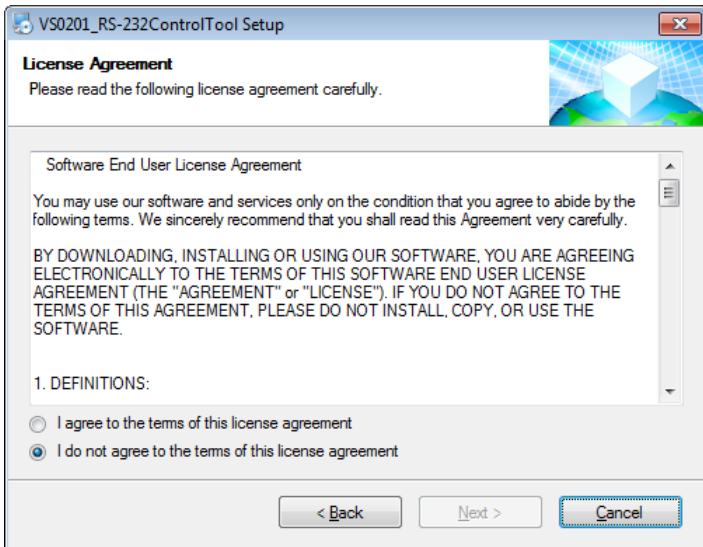
   `www.aten.com`

2. Save the file to a convenient location.

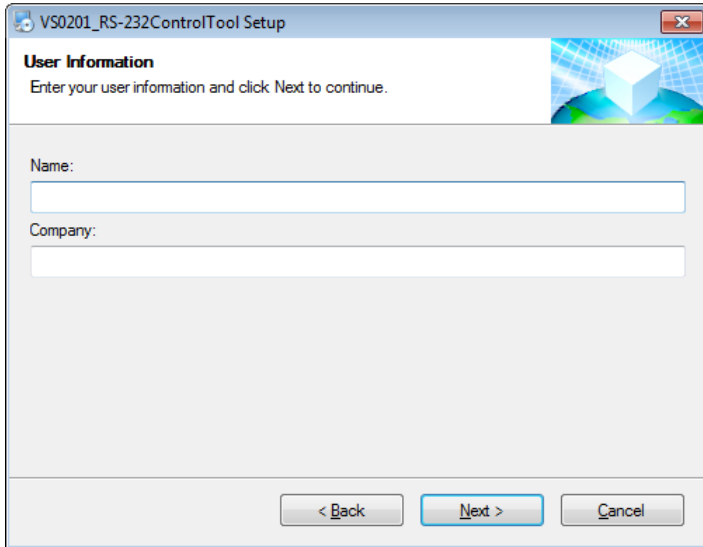3. Double click the file to run setup. The Welcome screen appears:

Click **Next**.

4. The License Agreement appears:

If you agree with the License Agreement, select *I agree with the terms of this license agreement,* and click **Next**.
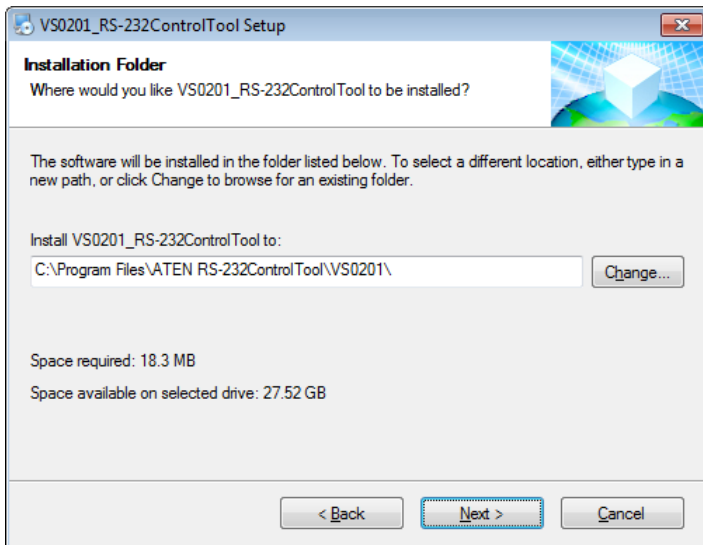
5. The User Information screen appears:

Fill in your *Name* and *Company*, then click **Next**.

6. When the Installation Folder screen appears, you can select where you want to install the program by clicking **Change**, or use the default installation location provided, then click **Next**.

7. From the Shortcut Folder screen type in or use the drop-down menu to enter the folder where you want to install the shortcuts.
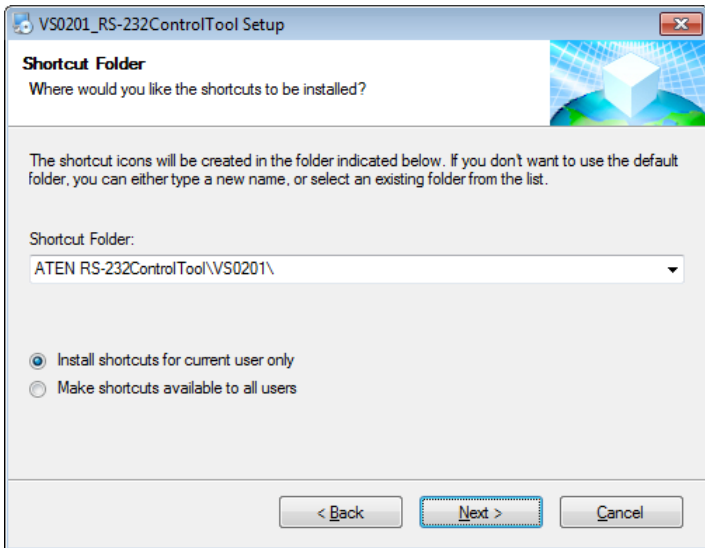
Then select *Install shortcuts for current user only*, or *Make shortcuts available to all users*, and click **Next**.

8. At the Ready to Install screen confirm your settings, click **Back** if you need to make changes, or click **Next** to begin the installation.
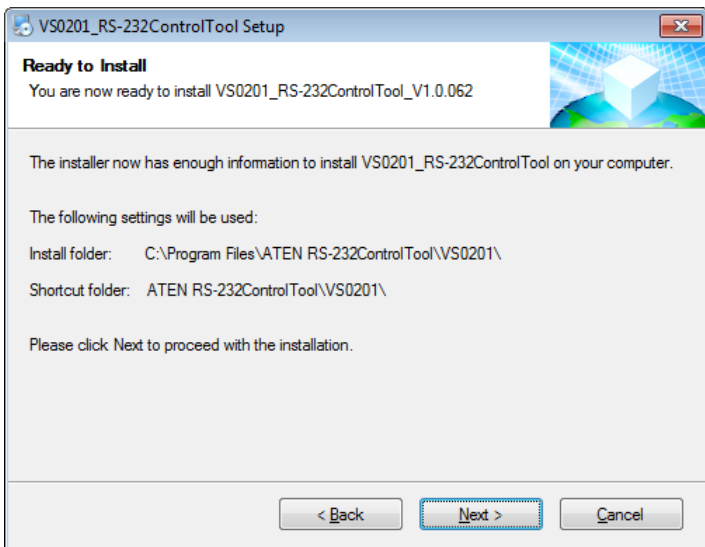
9. When the installation has completed successfully, the following screen will appear:
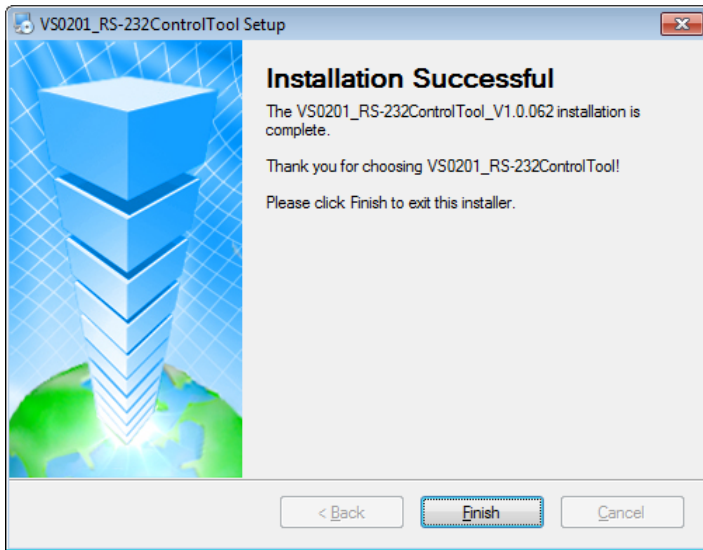
Click **Finish**. You are now ready to use the RS-232 Control Tool.

GUI Main Page

The RS-232 Control Tool is a convenient and intuitive application to send RS-232 commands to your VS0201 / VS0401. The various elements of the GUI are described in the following sections. For detailed information about the function of each RS-232 command, see the VS0201 / VS0401's user manual.

To invoke the GUI, simply click the RS-232 Control Tool shortcut. The interface opens on the *Switch Port* page by default, as shown below:
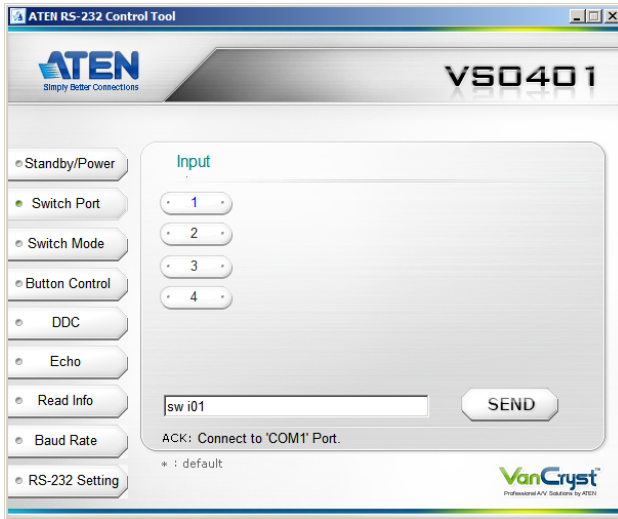
Note: The GUIs for the VS0201 and VS0401 are the same, with the only difference being that the VS0401 has two additional ports to manage.

Standby/Power

On the *Standby/Power* page, the following actions are possible:

- ◆ Click **ON** to enable power saving mode and have the system enter standby state
- ◆ Click **OFF** to disable power saving mode and have the system operate as normal
- ◆ Click **Send** to send the command

Standby/Power Commands

The formula for Standby/Power commands is as follows:

Standby + Control command [Enter]

For example, to disable the Standby/Power feature, input the following:

standby off [Enter]

Switch Port

On the *Switch Port* page, the following actions are possible:

- ◆ Select Input port **1**, **2**, **3**, or **4** from the GUI interface to switch to that port
- ◆ Click **Send** to send the command

Switch Port Commands

The actions can also be performed by keying the command into the text box, and clicking **SEND**, as described below.

The formula for Switch commands is as follows:

Switch Command + Input Command + Port number + Control [Enter]

1. For example, to switch input port to port 02, type the following:

   sw i02 [Enter]

2. To switch to the next port, input the following:

   sw + [Enter]

The following tables show the possible values and formats for the **Input** command, **Port Number** and **Control**:

Command	Description
sw	Switch command

Input Command	Description
i	Input command

Port number	Description
xx	01-04 port (default is 01)

Control	Description
+	Next Port
-	Previous Port

Note: 1. Each command string can be separated with a space.

2. The **Port Number** command string can be skipped, and the default value will be used.

Switch Mode
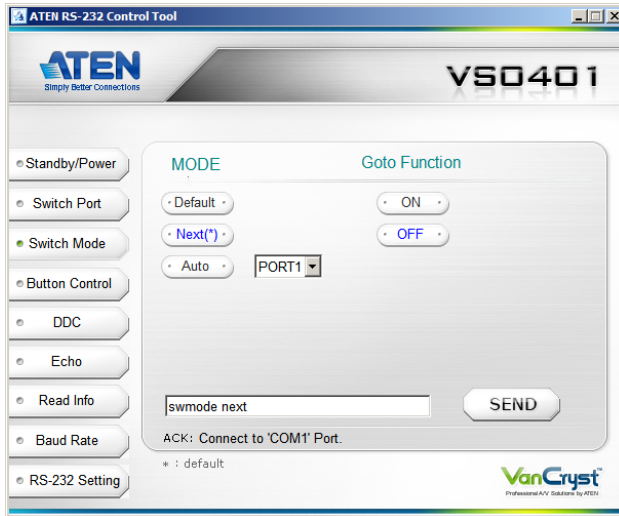
On the *Switch Mode* page, the following actions are possible:

Mode
Select the Mode you want the VS0201 / VS0401 to apply when a new input source is connected:

- ◆ **Default** – The switch behaves normally without automatic switching operation.
- ◆ **Next(*)** – Switch priority is placed on the next port that has a new source connected to it (default).
- ◆ **Auto –** Places priority on the selected port so that when a source is connected to the said port, the VS0201 / VS0401 automatically switches to it, and the port can not be changed until the source is unplugged or auto switching is disabled. Select an Input port from the drop-down menu (options are ports 1–4) to which the Auto mode applies.

Go To Function
The Go To function enables the VS0201 / VS0401 to switch to the next port with a powered on source device when the current input source is off.

- ◆ Click **ON** to enable Go To function
- ◆ Click **OFF** to disable Go To function
- ◆ Click **Send** to send the command

Switch Mode Commands

The formula for Switch Mode commands is as follows:

Switch Command + Input Command + Port Number + Control + [Enter]

1. For example, to enable auto switching for port 02, type the following:

    swmode i02 auto [Enter]

2. To enable the auto switch next mode, type the following:

    swmode next [Enter]

3. To turn auto switching off, type the following:

    swmode default [Enter]

4. To enable the Go To function, type the following:

    swmode goto on [Enter]

The following tables show the possible values and formats for the **Input** command, **Port Number** and **Control**:

Command	Description
swmode	Switchmode command

Input Command	Description
i	Input command

Port number	Description
xx	01-04 port (default is 01)

Control		Description
Default		Switch behaves normally without automatic switching
Next		Switch priority is placed on the next port that has a new source connected to it (default)
Auto		Places priority on the selected port
Goto	on	Enable Go To function, switch to the next port with a powered on source device
	off	Disable Go To function

Note: Each command string can be separated with a space.

Button Control
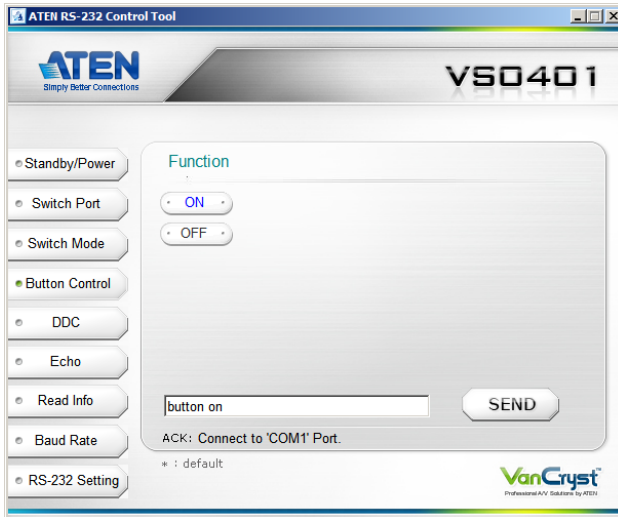
Button Control function allows you to secure your device by locking the use of front panel pushbuttons.

On the *Button Control* page, the following actions are possible:

- ◆ Click **ON** to enable the panel button function
- ◆ Click **OFF** to disable the panel button function
- ◆ Click **Send** to send the command

Button Control Command

The formula for the Button Control command is as follows:

Command + Control + [Enter]

For example, to enable the panel button function, type the following:

button on [enter]

DDC

The DDC function, when enabled, lets the VS0201 / VS0401 check the connected display to provide correct updated EDID information to the source device so that the display is optimized accordingly. With Dynamic DDC off, the source devices do not receive updated EDID data, which can cause display issues. If there is a problem with your display quality, however, it is recommended that Dynamic DDC be turned off.

On the *DDC* page, the following functions are possible:

✦ Select **ON** to enable Dynamic DDC

✦ Select **OFF** to disable Dynamic DDC

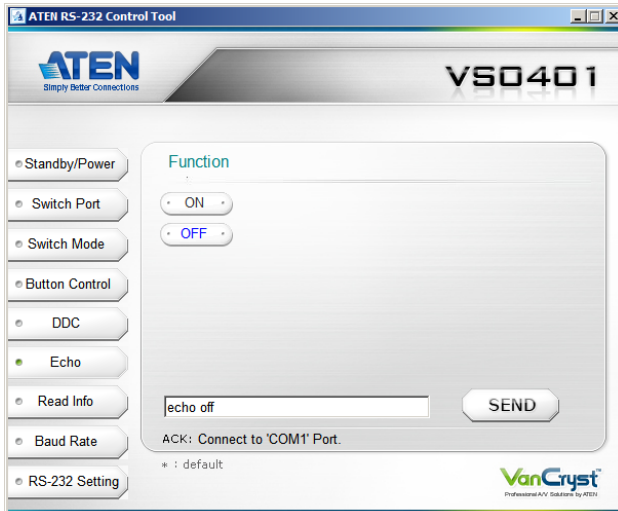✦ Click **SEND** to send the command.

DDC Commands
The formula for the DDC command is as follows:

DDC Command + Control (on/off) + [Enter]

For example, to disable Dynamic DDC, type the following:

ddc off [Enter]

Echo Commands

The Echo function, when enabled, lets the VS0201 / VS0401 perform operations received via the front panel pushbuttons, web GUI and and IR controller, but not corresponding commands received through the RS-232 interface.

On the *Echo* page, the following actions are possible:

- ◆ Click **ON** to enable the Echo function
- ◆ Click **OFF** to disable the Echo function (default)
- ◆ Click **Send** to send the command

Echo Commands

The formula for the Echo command is as follows:

Echo Command + Control (on/off) + [Enter]

For example, to enable the Echo function, type the following:

echo on [enter]

Read Info

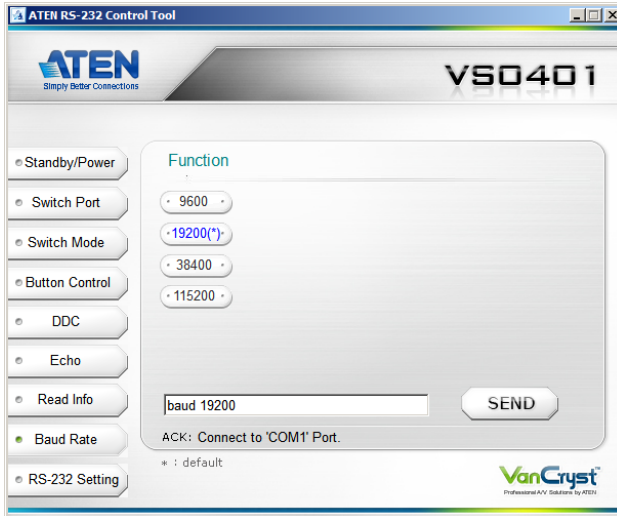On the *Read Info* page, the following actions are possible:

- ◆ Click **Version** to view the current firmware version
- ◆ Click **Send** to send the command

Read Info Command

View information from the device using the following command:

Read Command + Control (version) [Enter]

Baud Rate Setting

On the *Baud Rate Setting* page, the following actions are possible:

- ◆ Select the RS-232 Baud Rate you want the VS0201 / VS0401 to use. Options are **9600**, **19200** (default) **38400** and **115200**
- ◆ Click **Send** to send the command
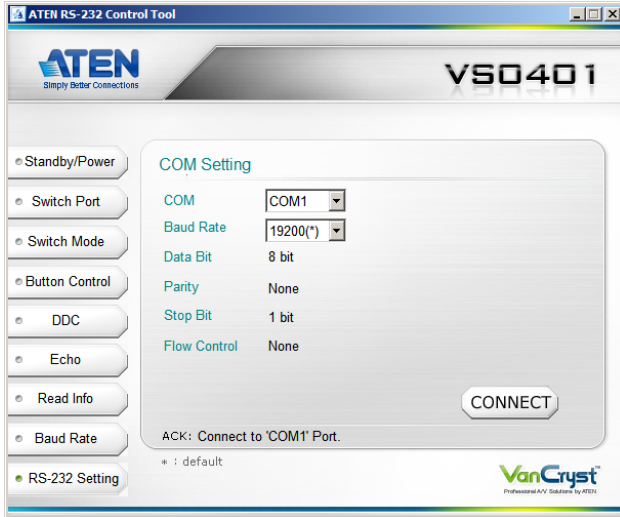
Baud Rate Setting Command

The formula for Baud Rate setting command is as follows:

Baud Command + Control [Enter]

For example, to select 38400 as your baud rate, type the following:

baud 38400 [enter]

RS-232 Setting

On the *RS-232 Settings* page, the serial port should be configured as follows:

Baud Rate	19200
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

To set the COM serial port and Baud Rate, do the following:

- ◆ Select a **COM** port or **Baud Rate** from the drop-down menus
- ◆ Click **CONNECT**

If the port connection exists, the *Acknowledgment* message will read:

Open port 'COM1' successfully.

Verification

After entering a command, a verification message appears at the end of the command line as follows:

◆ **Command OK** - indicates that the command is correct and successfully performed by the switch

◆ **Command incorrect** - indicates that the command has the wrong format and/or values.