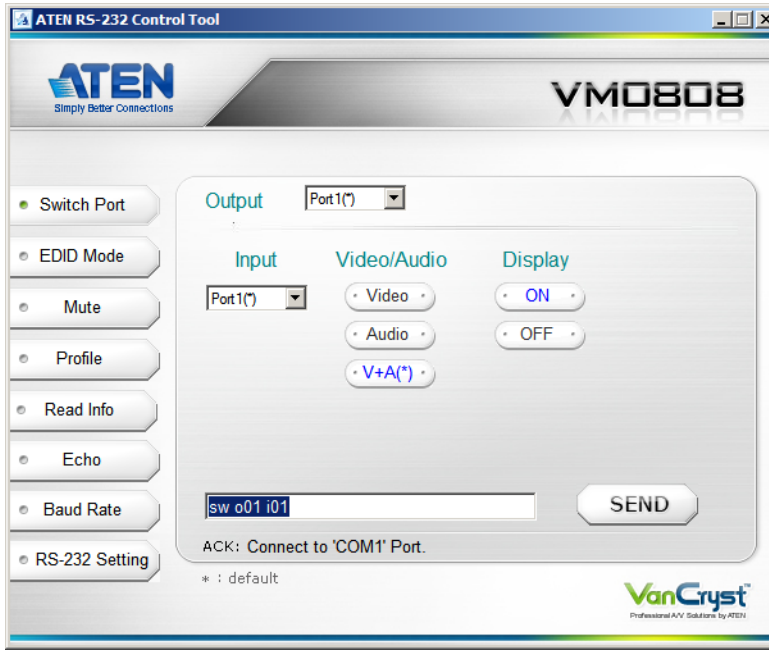
VM0808 Video Matrix Switch + Audio

RS-232 Control Tool

V1.0.065

User Manual



EMC Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

CE Warning:

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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 VM0808'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 VM0808 through a serial (RS-232) interface connection. RS-232 serial operations to and from the VM0808 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 VM0808's *Resource* page on our website:

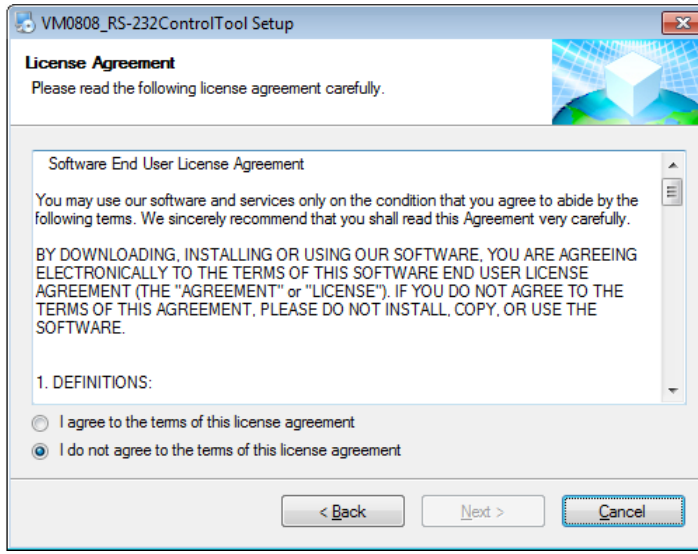
   `www.aten.com`

2. Save the file to a convenient location.

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

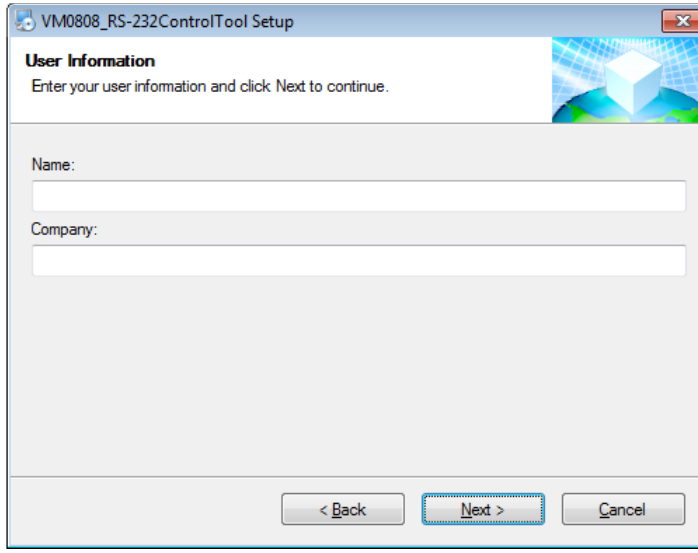
Click **Next**.

4. The License Agreement appears:



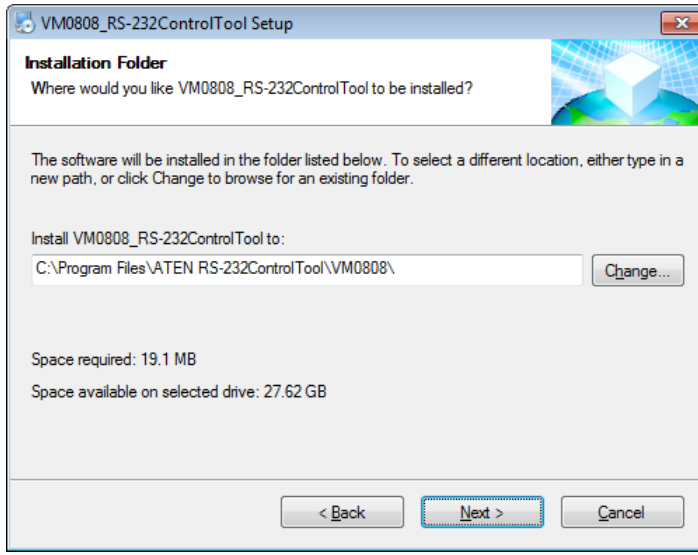
If you agree with the License Agreement, select *I agree with the terms of this license agreement*, and click **Next**.

5. The User Information screen appears:

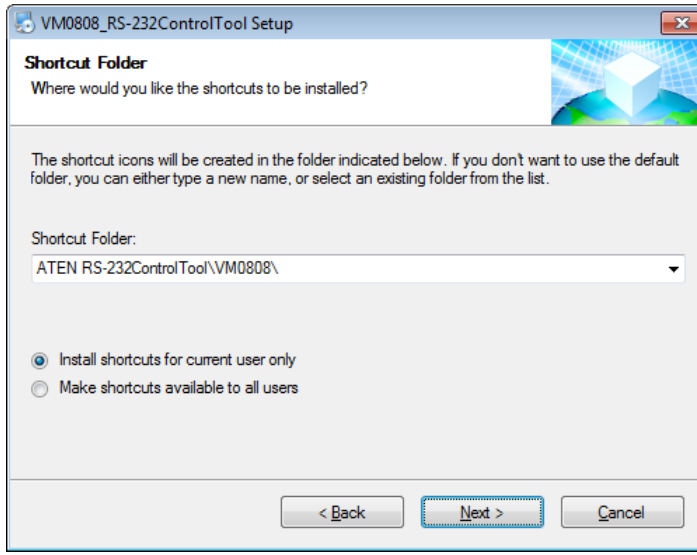


Fill in your *Name* and *Company*, then click **Next**.

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**.

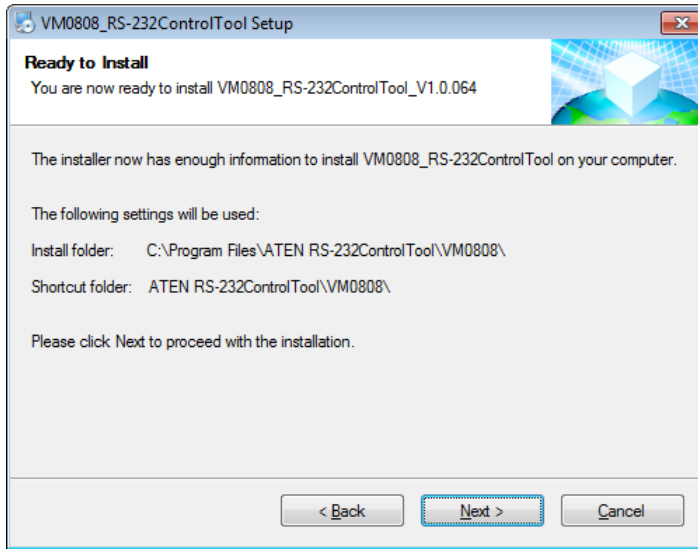


7. From the Shortcut Folder screen type in or use the drop-down menu to enter the folder where you want to install the shortcuts.

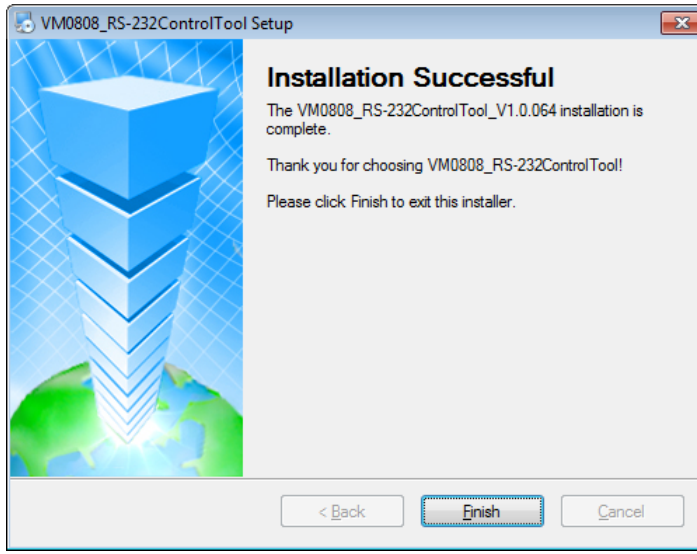


Then select *Install shortcuts for current user only*, or *Make shortcuts available to all users*, and click **Next**.

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:

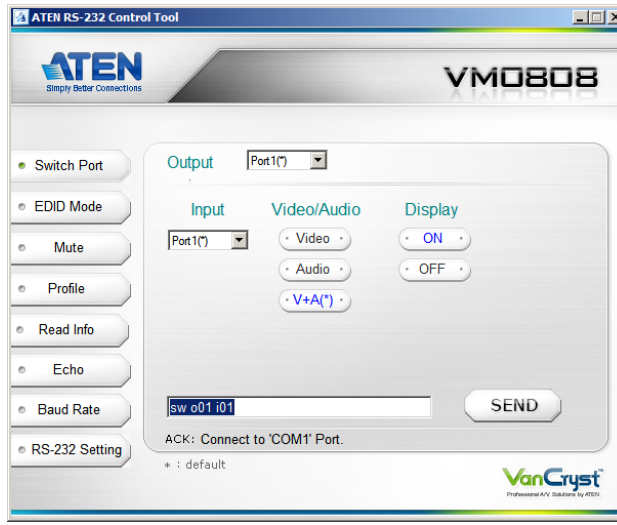


Click **Finish**. You are now ready to use the RS-232 Control Tool.

GUI Main Page

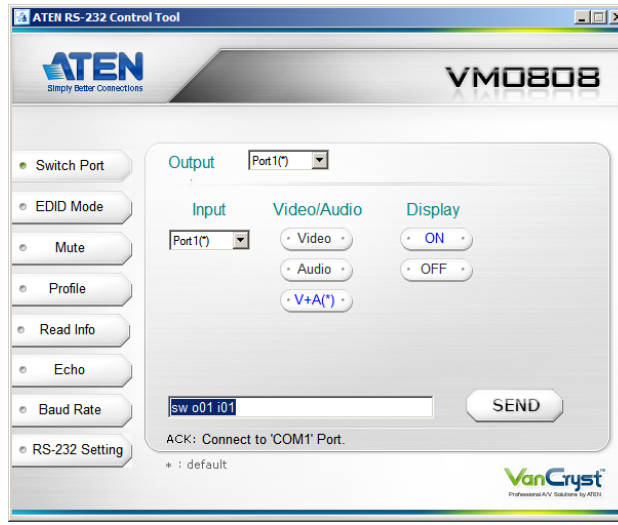
The RS-232 Control Tool is a convenient and intuitive application to send RS-232 commands to your VM0808. The various elements of the GUI are described in the following sections. For detailed information about the function of each RS-232 command, see the VM0808's user manual.

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:



The various elements of the GUI are described in the following sections.

Switch Port



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

- Select the **Output** port from the drop-down menu (options are Ports 01~08 and *, where * selects all ports; default Output port is Port 1).
- Select the **Input** port from the drop-down menu (options are Ports 01~08).
- Under **Video/Audio**, you can choose to switch Video only, Audio only or both Video and Audio (V+A, default).
- Turn the **Display** On or Off.
- Click **Send** to send the command.

Switch Port Commands

These actions can also be performed by keying the command into the text box, and clicking **Send**.

The formula for Switch Port commands is as follows:

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

1. For example, to switch output port 02 (audio and video) to input port 05, type the following:

   sw o02 i05 [Enter]

2. To turn off video output on port 03, type the following:

   sw o03 video off [Enter]

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.

3. The **Audio or Video** command string can be skipped, and both values will be used.

Possible Values

The following table shows the possible values for switch commands:

Command	Description
sw	Switch command

Output Command	Description
o	Output command

Output Port Number	Description
yy	01-08 port (default is 01)
*	All output ports

Input Command	Description
i	Input command

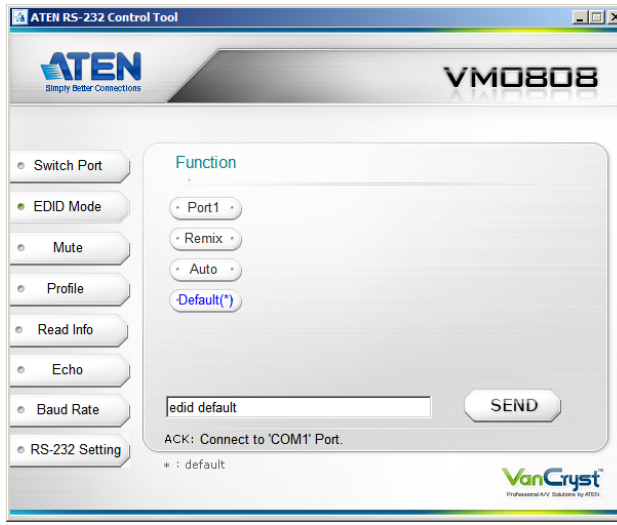
Input Port Number	Description
xx	01-08 port (default is 01)

Control	Description	
on	Turn on	
off	Turn off	
+	Next port	
-	Previous port	
video	Switch video only	skip = video+audio
audio	Switch audio only	

Enter	Description
[Enter]	Enter and send out the command **Note:** The hexadecimal code for [Enter] is 0D0A.

Acknowledge	Description
Command OK	Command is correct and the function is executed
Command Incorrect	Unavailable command or parameters

EDID Mode



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

- Click on **Port1** to implement the EDID of the connected display to Port 1, and pass it to the video source.
- Click **Remix** to use the EDID of each connected display according to its connection when the VM0808 is first powered on, or immediately after pressing ENTER to select the Remix option.
- Click **Auto** to implement the EDID of all connected displays. The VM0808 uses the best resolution for all displays.
- Click **Default(*)** to implement ATEN's default EDID.
- Click **Send** to send the command.

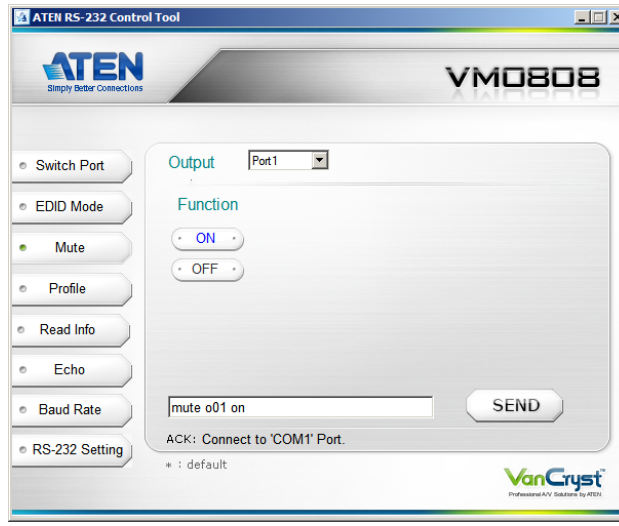
Extended Display Identification Data (EDID) is a data format that contains a display's basic information and is used to communicate with the video source/ system. You can set up which EDID mode the VM0808 uses with the following command:

EDID Command + Control (Port1 / Auto / Remix / Default) [Enter]

For example, to use the Port1 EDID setting, type the following:

edid port1 [enter]

Mute



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

- Select the **Output** port from the drop-down menu (options are Ports 01~08 and *, where * selects all ports; default Output port is *).
- Click **ON** to mute the selected port; audio from HDMI output port is disabled.
- Click **OFF** to enable the audio of the selected port (default).
- Click **Send** to send the command.

Mute Command

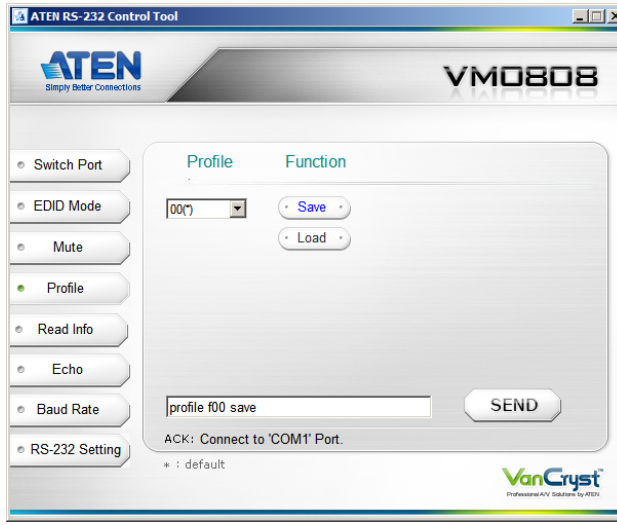
Enable or disable audio coming from the output port(s) using the following command:

Mute Command + Output Command + Port number + Control (On / Off) [Enter]

For example, to mute the audio on port 1, type the following:

mute o01 on [enter]

Profile



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

- Select a **Profile** from the drop-down menu (options are 00–31; default is 00).
- Click **Save** to store the current connection configuration to the active profile.
- Select **Load** to have the VM0808 use a saved profile.
- Select the command or use the text box to manually enter the command.
- Click **Send** to send the command.

Profile Command

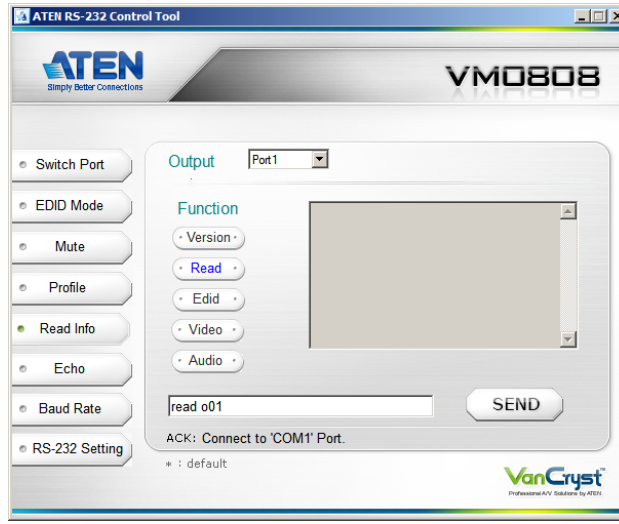
The formula for the Save/Load Profile command is as follows:

Command + Profile + Control (Save / Load) + [Enter]

For example, to save the current configuration to profile 7, type the following:

profile f07 save [enter]

Read Info



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

- Select an **Output** from the drop-down menu (options are Ports 01~08 and *, where * selects all ports; default Output port is *).
- Click **Version** to view the current firmware version.
- Click **Read** to display full information about the selected output port.
- Click **EDID** to see which EDID setting is implemented to the device.
- Click **Video** to view the video port selection and on/off status.
- Click **Audio** to view the audio port selection and on/off status.
- Click **Send** to send the command.

Read Command

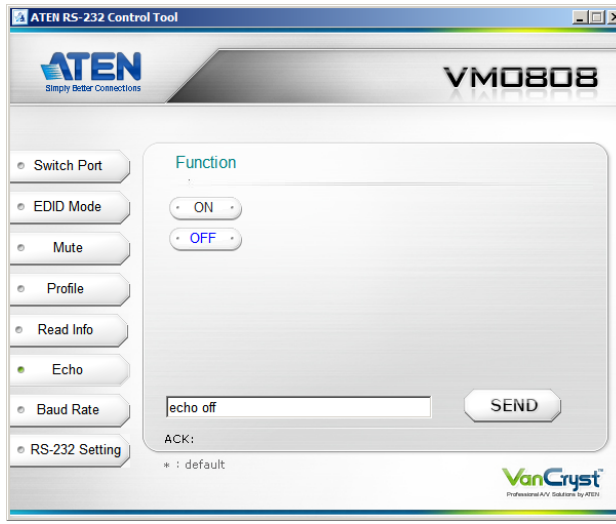
View information from the device using the following command:

Read Command + Output Command + Port number + Control (version / read / edid / video / audio) [Enter]

For example, to view information about port 1, type the following:

read o01 [enter]

Echo Commands



If the Echo feature is enabled: for each action from the front panel (pushbuttons), web GUI or IR interface, the VM0808 sends a corresponding acknowledgement message to the attached controller or management device via the RS-232 port.

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

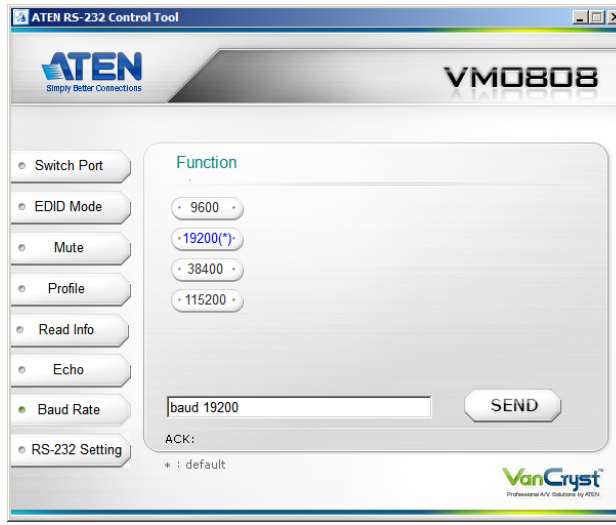
The formula for the Echo command is as follows:

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

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

echo on [enter]

Baud Rate Setting



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

- Select the RS-232 Baud Rate you want the VM0808 to use. Options are **9600**, **19200** (default) **38400** and **115200**
- Click **Send** to send the command

Baud Rate Setting Command

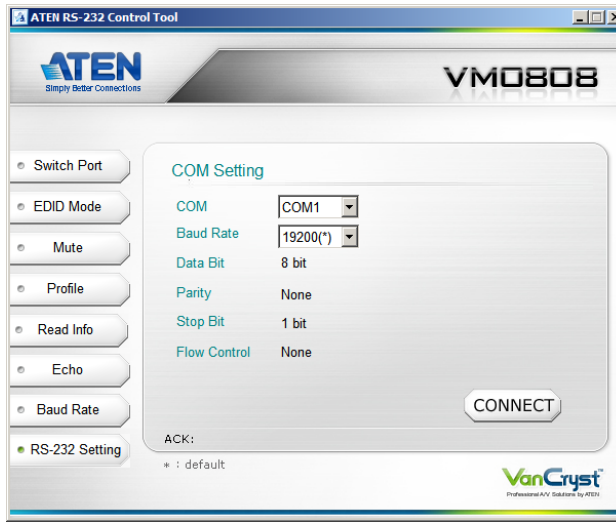
The formula for Baud Rate setting command is as follows:

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.