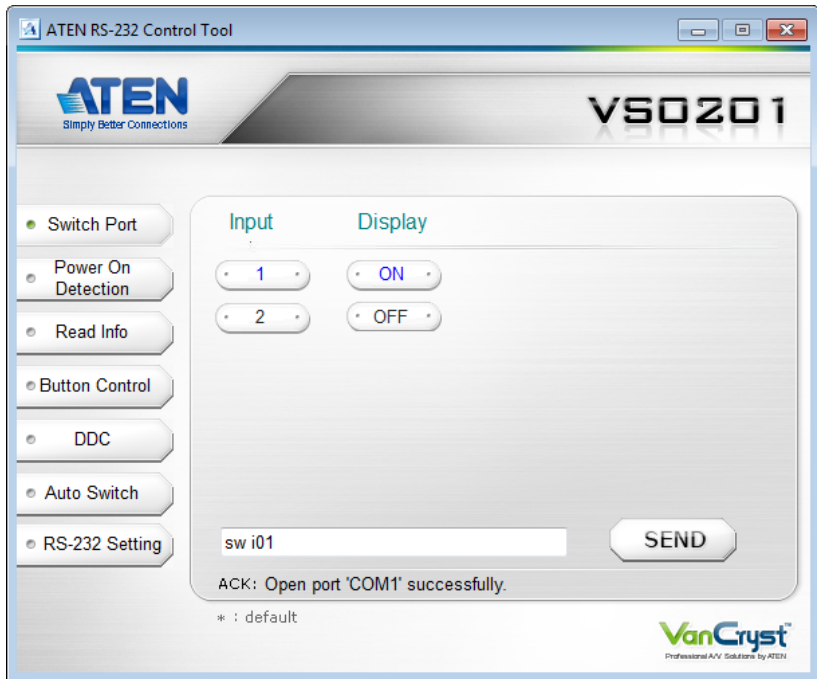


VS0201 / VS0401
2/4-Port VGA Switch with Audio
RS-232 Control Tool

V1.0.062

User Manual



FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause 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 which the receiver is connected;
- ◆ Consult the dealer or an experienced radio/television technician for help.

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 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
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

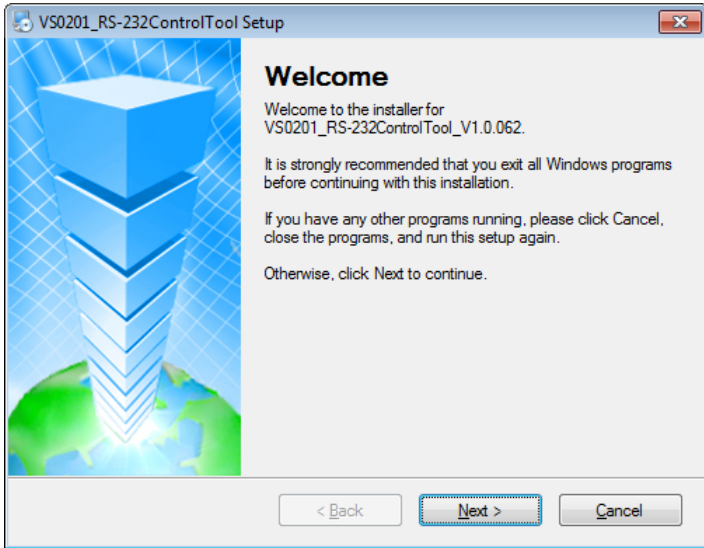
To install the RS-232 Control Tool, do the following:

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

www.aten.com

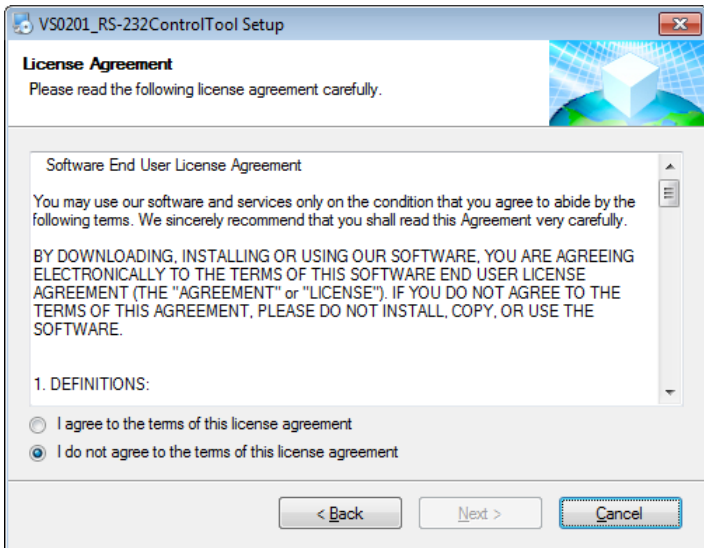
2. Save the file to a convenient location.

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



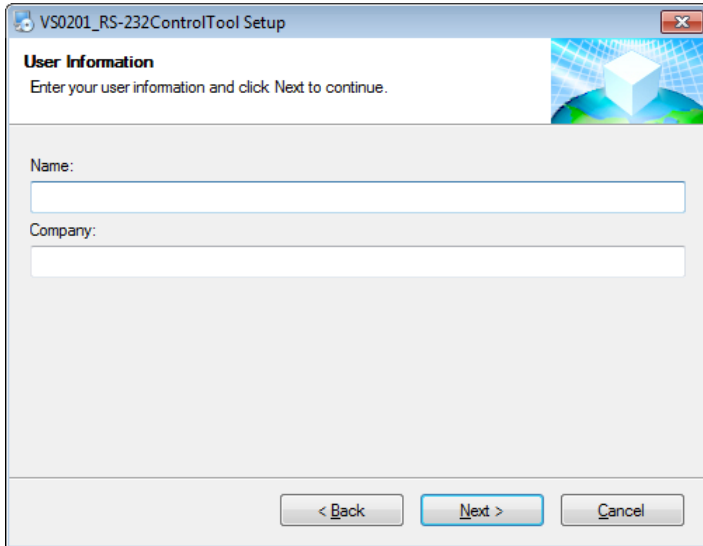
Click **Next**.

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**.

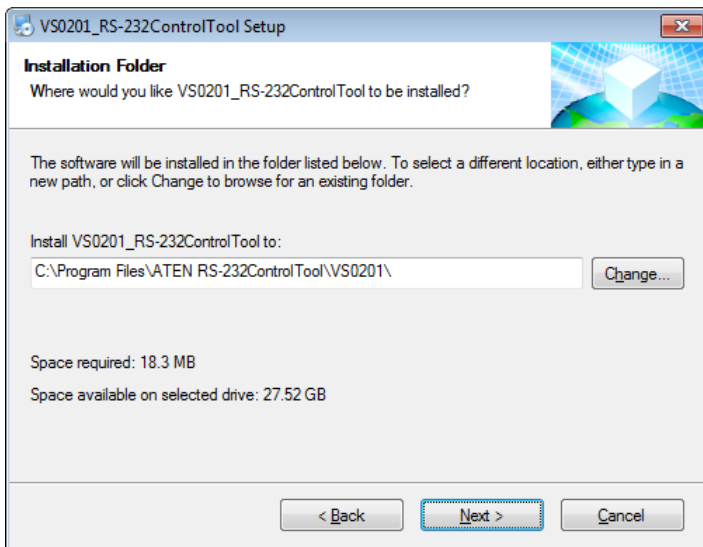
5. The User Information screen appears:



The screenshot shows a Windows-style dialog box titled "VS0201_RS-232ControlTool Setup". The main heading is "User Information" with a sub-instruction: "Enter your user information and click Next to continue." There are two text input fields: "Name:" and "Company:". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". A decorative graphic of a globe with a cube is in the top right corner.

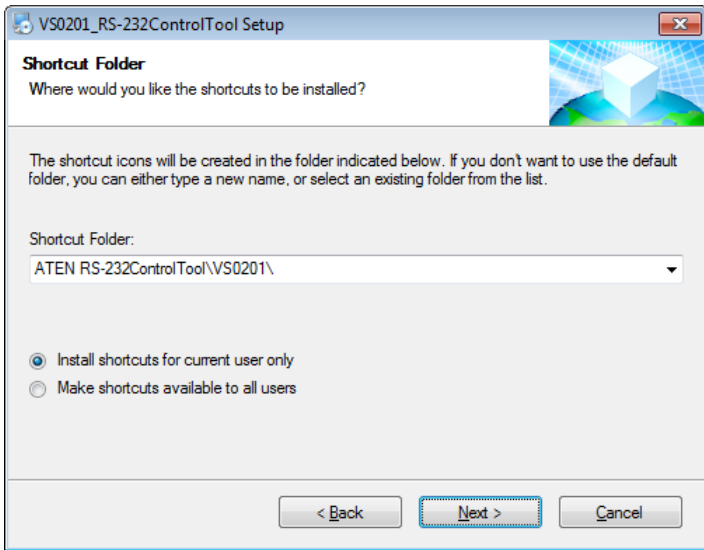
Fill in your *Name* and *Company*, then click **Next**.

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**.



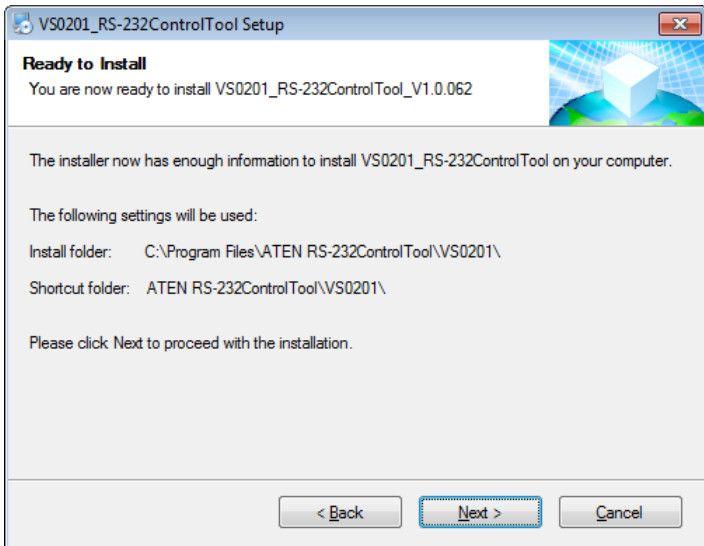
The screenshot shows a Windows-style dialog box titled "VS0201_RS-232ControlTool Setup". The main heading is "Installation Folder" with a sub-instruction: "Where would you like VS0201_RS-232ControlTool to be installed?". Below this, there is explanatory text: "The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder." A text box shows the default path: "C:\Program Files\ATEN RS-232ControlTool\VS0201\". To the right of the text box is a "Change..." button. Below the path, it says "Space required: 18.3 MB" and "Space available on selected drive: 27.52 GB". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". A decorative graphic of a globe with a cube is in the top right corner.

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

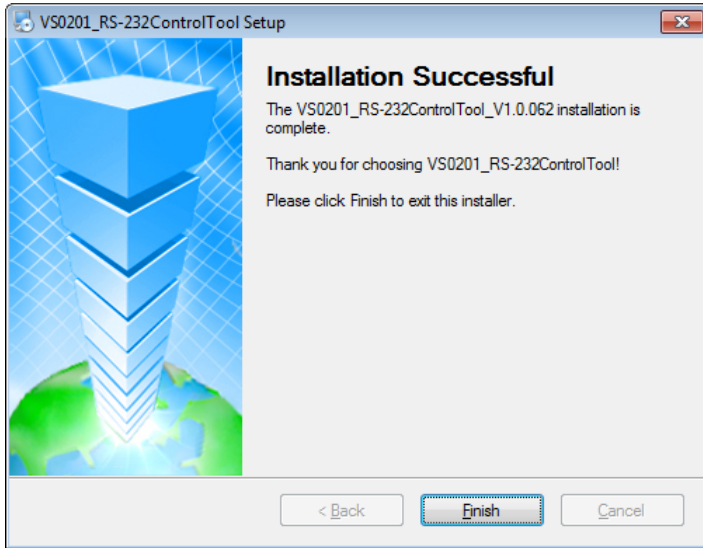


Then select *Install shortcuts for current user only*, or *Make shortcuts available to all users*, and click **Next**.

- 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:

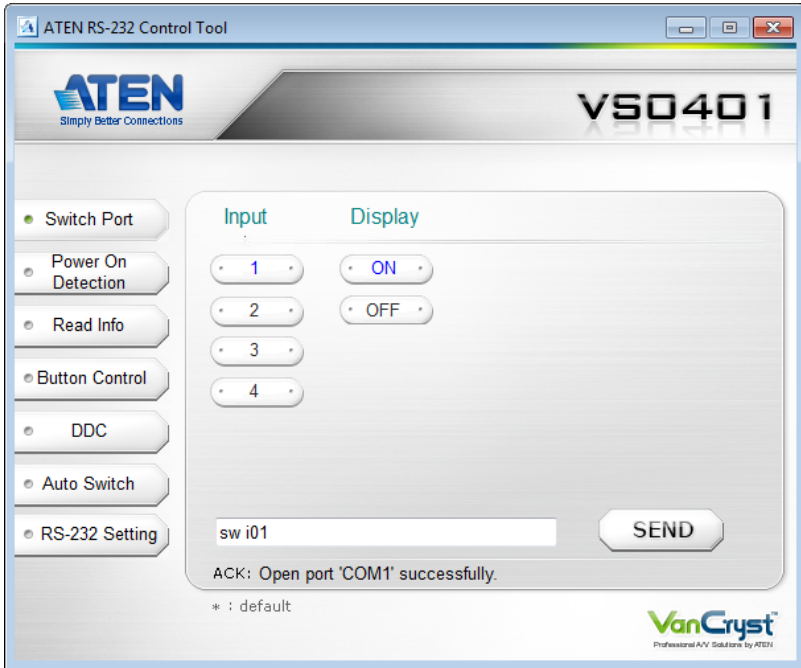


Click **Finish**. You are now ready to use the RS-232 Control Tool.

GUI Main Page

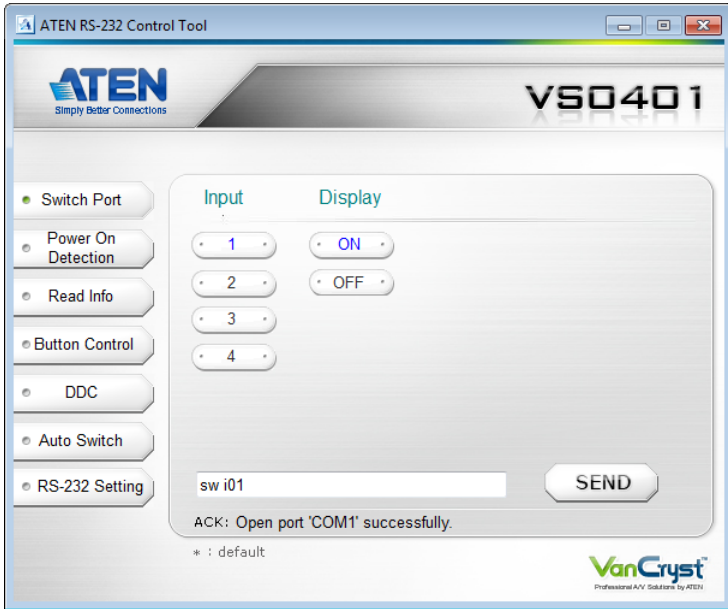
The RS-232 Control Tool is a convenient and intuitive application to send RS-232 commands to your VS0201 / VS0401. The various elements of the GUI are described in the following sections. For detailed information about the function of each RS-232 command, see the VS0201 / VS0401's user manual.

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 GUI for the VS0201 and VS0401 are the same, with the only difference being that the VS0401 has two additional ports to manage.

Switch Port



The Switch Port page is used to connect the Video/Audio sources to the display port, and to power on/off the display.

From the Switch Port page, the following functions are possible:

- ◆ Select *Input* port **1**, **2**, **3**, or **4** from the GUI interface to switch to that port
- ◆ Select **ON** or **OFF** to turn the display on or off
- ◆ Use the text box to manually enter the command.
- ◆ 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 available formulas for Switch Port commands are as follows:

1. Switch Command + Input Command + Port Number [Enter]

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

sw i02 [Enter]

2. Switch Command + Control [Enter]

For example, to switch to the next input port, type the following:

sw + [Enter]

3. Switch Command + Control [Enter]

For example, to switch the display off, type the following:

sw off [Enter]

Possible Values

The following table shows the possible values for switch commands:

Command	Description
sw	Switch command

Input Command	Description
i	Input command

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

Control	Description
on	Turn on the display
off	Turn off the display
+	Next port
-	Previous port

Enter	Description
[Enter]	Send out the command

Switch Port Commands Table:

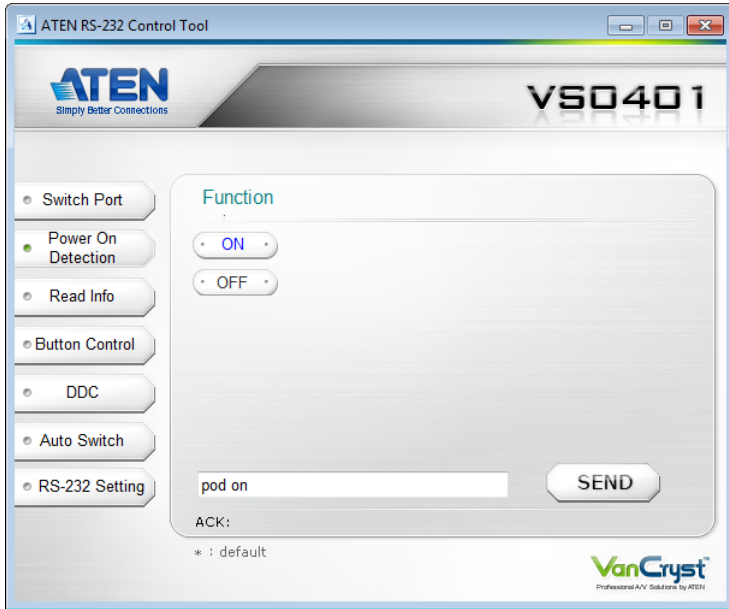
Command	Input	Port	Control	Enter	Description
sw	i	xx		[Enter]	Switch to Input Port xx
sw			on	[Enter]	Turn on the Display
sw			off	[Enter]	Turn off the Display
sw			+	[Enter]	Switch to the next input port
sw			-	[Enter]	Switch to the previous input port

After commands are sent acknowledge messages are returned.

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

- 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.

Power on Detection



The Power on Detection page is used to enable or disable the Power on Detection feature. Power on Detection is used to automatically switch to the next port with a powered on device, when the current port device is powered off.

From the Power on Detection page, the following Functions are possible:

- ◆ Select **On** to enable the Power on Detection feature.
- ◆ Select **Off** to disable the Power on Detection feature.
- ◆ Use the text box to manually enter the command.
- ◆ Click **SEND** to send the command.

Power on Detection Commands:

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

The available formulas for Power on Detection commands are as follows:

1. Power on Detection Command + Control [Enter]

For example, to enable Power on Detection, type the following:

pod on [Enter]

Possible Values

The following table shows the possible values for Power on Detection commands:

Command	Description
pod	Power on Detection command

Control	Description
on	Turn pod on
off	Turn pod off

Enter	Description
[Enter]	Send out the command

Power on Detection Commands Table:

Command	Control	Enter	Description
pod	on	[Enter]	Enable Power on Detection
pod	off	[Enter]	Disable Power on Detection (default)

Read Info



The Read Info page is used to get the VS0201 / VS0401's firmware version. From the Read Info page, the following Functions are possible:

- ◆ Select **Version** to get the firmware version of the VS0201 / VS0401.
- ◆ Use the text box to manually enter the command.
- ◆ Click **SEND** to send the command.

Read Info Command:

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

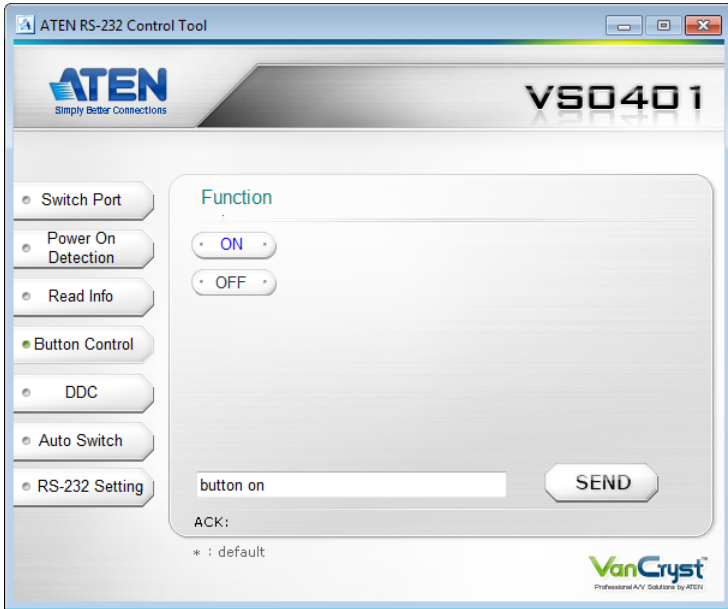
The formula for the Read Info command is as follows:

1. Read Command [Enter]

For example, to read the firmware version of the VS0201 / VS0401, type the following:

read version [Enter]

Button Control



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

From the Button Control page, the following Functions are possible:

- ◆ Select **ON** to enable use of the front panel pushbuttons.
- ◆ Select **OFF** to disable use of the front panel pushbuttons.
- ◆ Use the text box to manually enter the command.
- ◆ Click **SEND** to send the command.

Button Control Commands:

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

The formula for the Button Control command is as follows:

1. Button Command + Control [Enter]

For example, to disable Button Control, type the following:

button off [Enter]

Possible Values

The following table shows the possible values for Button Control commands:

Command	Description
button	Button Control command

Control	Description
on	Enable Front Panel Pushbuttons (default)
off	Disable Front Panel Pushbuttons (Source port LED flashes every 1 second to indicate pushbuttons are disabled)

Enter	Description
[Enter]	Send out the command

Button Control Commands Table:

Command	Control	Enter	Description
button	on	[Enter]	Enable front panel pushbuttons (default)
button	off	[Enter]	Disable front panel pushbuttons

DDC



The DDC page is used to enable and disable Dynamic DDC. Dynamic DDC is used to monitor the connected display and provide the correct updated EDID information to the source device so that the display is optimized. With Dynamic DDC off, source devices do not receive updated EDID data which can cause display issues. If there is a problem with your display quality, it is recommended that Dynamic DDC be turned off.

From the DDC page, the following functions are possible:

- ◆ Select **ON** to enable Dynamic DDC.
- ◆ Select **OFF** to disable Dynamic DDC.
- ◆ Use the text box to manually enter the command.
- ◆ Click **SEND** to send the command.

DDC Commands:

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

1. DDC Command + Control [Enter]

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

ddc off [Enter]

Possible Values

The following table shows the possible values for DDC commands:

Command	Description
ddc	Dynamic DDC command

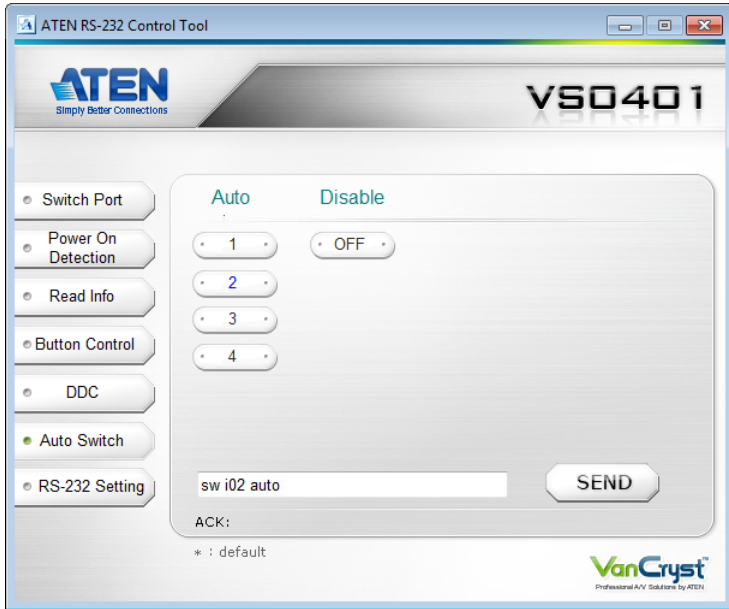
Control	Description
on	Enable Dynamic DDC
off	Disable Dynamic DDC (default)

Enter	Description
[Enter]	Send out the command

DDC Commands Table:

Command	Control	Enter	Description
ddc	on	[Enter]	Enable Dynamic DDC
ddc	off	[Enter]	Disable Dynamic DDC (default)

Auto Switch



The Auto Switch page is used to enable Auto Switching for a port, or to disable Auto Switching. Auto Switching places priority on a port so that when a source is connected to that 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.

From the Auto Switch page, the following functions are possible:

- ◆ Select **1**, **2**, **3**, or **4** to enable Auto Switching for that port
- ◆ Select **OFF** to disable Auto Switching for all ports.
- ◆ Use the text box to manually enter the command.
- ◆ Click **SEND** to send the command.

Auto Switch Commands:

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

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

For example, to enable Auto Switch for port 02, type the following:

sw i02 auto [Enter]

2. Switch Command + Control [Enter]

For example, to disable Auto Switch, type the following:

sw auto off [Enter]

Possible Values

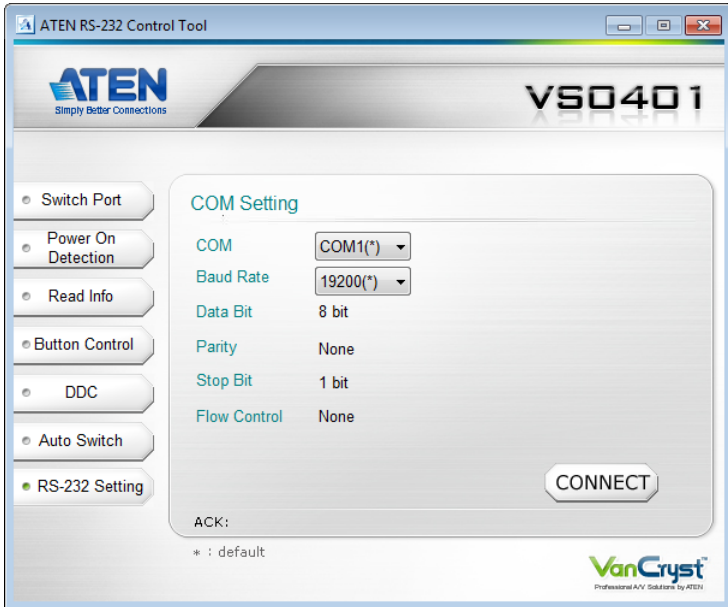
The following table shows the possible values for Auto Switch commands:

Command	Description
sw	Switch command
Input Command	Description
i	Input command
Port Number	Description
xx	01-04 port (default is 01)
Control	Description
auto	Enable Auto Switch for the specified port
auto off	Disable Auto Switch for all ports
Enter	Description
[Enter]	Send out the command

Auto Switch Commands Table:

Command	Input	Port	Control	Enter	Description
sw	i	xx	auto	[Enter]	Enable Auto Switching for port xx
sw			auto off	[Enter]	Disable Auto Switching for all ports

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

From the RS-232 Settings page you can set the COM serial port and Baud Rate. To select the options, do the following:

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

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

Open port 'COM1' successfully.