4/8/16 Port 1U Rack Mount VGA USB KVM Switch with OSD

SV431DUSBU
SV831DUSBU
SV1631DUSBU

*SV831DUSBU shown

DE: Bedienungsanleitung - de.startech.com
FR: Guide de l’utilisateur - fr.startech.com
ES: Guía del usuario - es.startech.com
IT: Guida per l’uso - it.startech.com
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Manual Revision: 05/06/2016
FCC Compliance Statement

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 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.

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Introduction

The SV431DUSBU/SV831DUSBU/SV1631DUSBU 1U Rack Mountable USB KVM Switch with OSD lets you control multiple USB based computers from a single console (USB keyboard, USB mouse, monitor).

Convenient push-button and hot-key controls provide quick, reliable switching between connected computers while manual and auto-scan switching modes and an On Screen Display (OSD) offer additional control options.

Designed to ensure maximum space efficiency, the USB KVM switch features a slim 1U design that fits neatly into a server equipment rack/cabinet (with optional mounting bracket SV431RACK) and offers rear cable connections to eliminate cable tangles and minimize workspace disruption.

Backed by a StarTech.com 3-year warranty and free lifetime technical support

Packaging Contents

• 1 x KVM switch
• 1 x universal power adapter (NA/EU/UK/AU)
• 4 x foot pads
• 2 x rackmount brackets (8 port and 16 port only)
• 8 x 6 ft 2-in-1 USB VGA KVM cables (8 port only)
• 16 x 6 ft 2-in-1 USB VGA KVM cables (16 port only)
• 1 x screw kit (16 port only)
• 1 x instruction manual

System Requirements

• USB compatible 3 button wired mouse
• USB compatible 104-key keyboard
• VGA enable display device
• StarTech.com KVM cables
• VGA enable computer systems
Installation

Hardware Installation

**WARNING!** Prior to installation, please ensure that all computers and KVM switch(es) are powered down.

Console Connection

The SVxxxDUSBU series of KVM switches are designed to use USB console connections only. A USB compatible keyboard and mouse and VGA monitor must be used for the local console. A USB keyboard/mouse combo device that uses a single USB connector may also be used, but must be connected to the USB Keyboard port.

Connecting Computer to the KVM Switch

To connect a computer to the KVM switch, use the appropriate StarTech.com KVM cable to connect from one of the PC ports located on the rear panel of the KVM switch to the keyboard/mouse and VGA video ports on the computer.
Cascaded configurations

**NOTE:** The Master KVM switch must have equal or more PC ports than that of the Slave KVM switches. For example, if an 8-port switch is the Master, an 8-port or 4-port switch can be a Slave, but not a 16-port switch.

The ports labelled PC 1 - PC 8 can be connected to either a computer or a Slave KVM switch’s CONSOLE port. On a 16-port KVM switch, the ports marked PC A - PC H can only be connected to computers. Use only the appropriate StarTech.com KVM cables to connect the Master KVM switch’s PC ports and Slave KVM switch’s CONSOLE port.

The maximum number of computers controlled by a Master/Slave configuration with all 8-port KVM switches used is 64, with 8 Slaves and each Slave connecting to 8 computers:

The maximum number of computers controlled in a Master/Slave configuration with all 16-port KVM switches used is 136, with 8 units of 16-port Slaves (to PC 1 - PC 8) and each Slave connected to 16 computers, plus 8 more computers connected directly to the Master (to ports PC A - PC H):

After the connection has been completed, please re-activate the OSD menu to verify that the Master recognizes the Slaves. A triangle mark (▲) is placed next to the right of the channel name indicating that the port is connected to a Slave, not a computer. A number to the left of the triangle mark indicates the Slave model, i.e. ‘8’ for an 8-port switch.

**NOTE!** A device (computer or KVM switch) at any ‘PC x’ port can be changed at any time after initial power-up. If you change any one of the PC 1 to PC 8 port connections from a computer to a Slave KVM switch or vice versa, or replace the devices of a port, the OSD will update this change the next time it is activated.
Operation
You may select a computer by pressing the front panel push button directly, by issuing hot-key commands or by activating the OSD window. The front panel indicator changes to reflect the computer port selected (red) and whether the port is connected to a powered computer (green). The indicator flashes red when it is in either Auto Scan or Manual Scan mode.

Push Button controls
To select control of an attached computer, press the front panel button that corresponds with the assigned computer number. For 16 port models, 1 to 8 represents the lower 8 ports, while A to H indicates the higher ports. Ports 1 and A share the same pushbutton, as do 2 and B, 3 and C, etc.

EXAMPLE: If port 1 is already selected and you wish to switch to Port A, tap the shared pushbutton once to select Port A. If Port 1 is not selected, press and hold pushbutton 1 for two seconds to select Port A.

K/M Reset
K/M Reset resolves the majority of problems developed by keyboard and/or mouse device replacement or configuration changes. Press down buttons 1 and 2 simultaneously for 2 seconds to reconfigure the whole system without having to turn off the KVM switch or any attached computers.

Auto Scan
This KVM switch provides an easy to use feature to start Auto Scanning. To use this function, simultaneously press buttons 7 and 8 and hold for two seconds. (SV431DUSB uses buttons 3 and 4 to launch this function).
OSD (On Screen Display) Operation

By hitting the left <CTRL> key twice within two seconds, you may see the ‘Hotkey Menu’ if it is enabled (an OSD option). Or, by hitting the left <CTRL> key three times within two seconds, you will see a ‘KVM MENU’ screen showing a list of the computers with corresponding channel addresses, names and status.

The channel address (port number) of the currently selected computer is displayed in red, same as the front indicator, to the right of the OSD title ‘KVM MENU’.
The color of a device name is green if it has power and is ready for selection (its corresponding front panel indicator is green). The color is white if it has no power. The OSD menu updates when it is activated.

Use the <UP> and <DOWN> arrow keys to highlight a computer and the <ENTER> key to select it. Or, you may press <ESCAPE> to exit OSD and remove the OSD menu from the display; the status window returns to the display and indicates the currently selected computer or operating status.

A triangle mark (►) to the right of a name indicates the port is cascaded to a Slave; the number at the left of the triangle mark shows the number of ports the Slave has, i.e. 8 for SV831DUSB. The <ENTER> key brings you one level down and another screen pops up listing the names of the computers on that Slave. The name of the Slave will be shown at the upper right corner of the OSD menu. It is useful to group computers and still be able to see the group name.

An eye mark (👀) to the right of a name indicates the computer is selected to be monitored in Scan mode. In OSD, this mark can be switched on or off by function key <F2>.

Press the <ESCAPE> key to exit the OSD and to return to the selected computer, The computer name is also shown on the screen.

**Function key <F1>:** To edit the name entry of a computer or a Slave. First, use the <UP> and <DOWN> arrow keys to highlight a channel then press <F1> followed by name entry. Valid characters are ‘A’~’Z’, ‘0’~’9’ and the dash character. Lowercase letters are converted to uppercase ones. Press the <BACKSPACE> key to delete a letter one at a time. Nonvolatile memory stores all name entries until you change, even if the unit is powered down.

**Function key <F2>:** To switch the eye mark (👀) of a computer on or off. First, use the <UP> and <DOWN> arrow keys to highlight it, then press <F2> to switch its eye mark on or off. If Scan Type is ‘Ready PC + 👀’, only the power-on and eye mark selected computers will be displayed sequentially in Scan mode.

**Function key <F3>:** To lock a device (a computer or a Slave) from unauthorized access, use Security. Security is effective for only one device (a computer or a Slave). To lock a device, use the <UP> and <DOWN> arrow keys to highlight it, then press <F3>. Now, enter up to 4 characters (‘A’~’Z’, ‘0’~’9’, '-') followed by <ENTER> as new password. A Security enabled device is marked with a lock (🔒) following its channel number. To permanently disable the security function from a locked device, highlight it, press <F3> then enter the password.
If you want to access the locked device temporarily, simply highlight it and press <ENTER>, the OSD will ask you for the password. After entering the correct password, you are allowed to use the device. This device is automatically re-locked once you switch to another port. During Scan mode, OSD skips the security-enabled device.

**NOTE:** If you forget the password, the only way to permanently erase all of the passwords is to: For SV831DUSBU and SV1631DUSBU, press and hold the 1 and 2 front panel buttons, then hold 7 and 8. Release 7 and 8, then release 1 and 2. For SV431DUSBU, press 3 and 4 instead of 7 and 8.

**Function key <F4>:** More functions are available by hitting <F4>. A new screen pops up displaying more functions as described below. Most of them are marked with a triangle (►) indicating there are options to choose from. Using the <UP> and <DOWN> arrow keys, select the functions and press <ENTER>. Available options will be shown in the middle of the screen. Again, using the <UP> and <DOWN> arrow keys to view options then press <ENTER> to select it. You can press <ESCAPE> to exit at any time.

**Auto Scan**
In this mode, the KVM Switch automatically switches from one power-on computer to the next, sequentially, in a fixed interval. During AutoScan mode, the OSD displays the name of the selected computer.

When Auto Scan detects any keyboard or mouse activity, it suspends the scanning till activity stops; it then resumes with the next computer in sequence. To abort Auto Scan mode, press the left <CTRL> twice, or, press any front button. Scan Type and Scan Rate set the scan pattern. Scan Type (<F4>: More\Scan Type) determines if scanned computers must also be eye mark selected. Scan Rate(<F4>: More\Scan Rate) sets the display interval when a computer is selected before selecting the next one.

**Manual Scan**
Scan through power-on computers one by one by keyboard control. You can type (<F4>: More\Scan Type) to determine if scanned computers must also be eye mark selected. Press the <UP> arrow key to select the previous computer and the <DOWN> arrow key to select the next computer. Press any other key to abort Manual Scan mode.

**Scan Type:**
- **Ready PC + ☐ :** In Scan mode, scans through power-on computers and those with the eye mark on the selected ports.
- **Ready PC:** In Scan mode, scans through all power-on computers.
- **☐ only:** In Scan mode, scans through any selected computer regardless of computer power status with an eye mark.

**Scan Rate:** Sets the duration of a computer displayed in Auto Scan mode. The options are 3 seconds, 8 seconds, 15 seconds and 30 seconds. The non-volatile memory stores the Scan Rate setting.
Hotkey Menu: When you hit the left `<CTRL>` key twice within two seconds, the Hotkey Menu appears displaying a list of hot-key commands if this option is On. The Hotkey Menu can be turned Off if you prefer not to see it when the left `<CTRL>` key is hit twice. The non-volatile memory stores the Hotkey Menu setting.

CH Display:
- **Auto Off**: After you select a computer, the channel address and name of the computer will appear on the screen for 3 seconds then disappear automatically.
- **Always On**: The channel address and name of a selected computer and/or OSD status displayed on the screen all the time. The non-volatile memory stores the CH Display setting.
- **Position**: The position of the selected computer name and/or OSD status displayed on screen during operation. The actual display position shifts due to different VGA resolution, the higher the resolution the higher the display position. The nonvolatile memory stores the Position setting.

Country Code for Sun:
Sun keyboards of different languages have different layouts. The KVM switch is able to emulate a Sun keyboard for a specific language type or country such as Arabic, Belgian, US, Yugoslavia, etc. Select the proper country code that matches all of your Sun computers.

**NOTE**: The country code must be set prior to powering up the Sun computer. Not performing this step prior to power-up could cause the system to malfunction.

Max. Resolution: It supports widescreen, and you can adjust the monitor resolution under this sub-menu. The following selections are available: 1024x768, 1280x1024, 1600x1200, 1920x1440. Widescreen resolutions: 1920x1080, 1366x768, 1280x720, 1680x1050 and “DDC2B Disable”.

Function key `<F5>`: To switch the Sun mark of a port on or off indicating the computer is a Sun server as shown below. Sun servers have more keys on the keyboard than a PC. When a Sun-marked port is selected, the KVM Switch starts to translate the keys from a PC keyboard to a Sun keyboard. See the section entitled Sun Keyboard Mapping for further detail.
NOTE: It is unnecessary to switch the Sun mark ON or OFF if an authentic Sun keyboard is being used on the console. In other words, you must ensure that the Sun-marked port has not been selected if you are already using a Sun keyboard.

With different types of keyboard and computer, the Sun Mark must be set up in compliance with the following instruction:

<table>
<thead>
<tr>
<th>Keyboard Type</th>
<th>Computer Type</th>
<th>Sun Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB (non-Sun)</td>
<td>PC/Mac</td>
<td>No</td>
</tr>
<tr>
<td>USB (non-Sun)</td>
<td>Sun</td>
<td>Yes</td>
</tr>
<tr>
<td>USB (Sun keyboard)</td>
<td>PC/Mac</td>
<td>No</td>
</tr>
<tr>
<td>USB (Sun keyboard)</td>
<td>Sun</td>
<td>Yes</td>
</tr>
</tbody>
</table>

ESC: To exit the OSD, press the <ESCAPE> key

Hot-key commands

Hot-key command is a short keyboard sequence used to select a computer, to activate computer scan, etc. StarView interprets keystrokes followed by one or two more keystrokes. A built-in buzzer generates a high-pitch beep for a correct hotkey command, otherwise, one low-pitch beep for an error and the bad key sequence will not be forwarded to the selected computer.
The short form hotkey menu can be turned on as an OSD function (<F4>: More \ Hotkey Menu) every time the left <CTRL> is pressed twice.

**NOTE:** Left <CTRL>: refers to the Control key on the left side of the keyboard.

1~8/A~H: refers to the number keys ‘1’~‘8’ in the upper row of the keyboard and character keys ‘A’ ~ ‘H’. Do not use the keypad at the right of the keyboard.

To select a computer by hotkey command, you must know its port number, which is determined by the KVM Switch connection. For a computer connected to a Slave, two characters represent its port. The first character is the port number of the Master unit (1~8) and the second one is the port number of the Slave (1~8 or A~H). Please note that only the Master’s ‘PC1’ ~ ‘PC8’ ports can be connected to a Slave.

**EXAMPLES:**

- **Left <CTRL>, Left <CTRL>, 7**: Selects a computer connected to port 7 of the Master.
- **Left <CTRL>, Left <CTRL>, 6, C**: Selects a computer connected to port C of a Slave connected to port 6 of the Master.

**Auto Scan**

In this mode, the KVM Switch automatically switches from one power-on computer to the next, sequentially, in a fixed interval. During AutoScan mode, the OSD displays the name of the selected computer.

**Left <CTRL>, Left <CTRL>, F1**

When Auto Scan detects any keyboard or mouse activity, it suspends the scanning until the activity stops. It then resumes with the next computer in sequence. The length of the Auto Scan interval (Scan Rate) is adjustable. To abort Auto Scan mode, press the left <CTRL> key twice.

**NOTE:** Scan Type determines whether an eye-marked computer is to be displayed during Auto Scan.

**Manual Scan** enables you to manually switch back and forth between the powered computers:

**Left <CTRL>, Left <CTRL>, F2**

Press the <UP> arrow key to select the previous computer and the <DOWN> arrow key to select the next computer. Press any other key to abort Manual Scan mode.

**NOTE:** Scan Type determines whether an eye-marked computer is to be displayed during Auto Scan.

To adjust **Scan Rate**, which sets the duration before switching to the next computer in Auto Scan:

**Left <CTRL>, Left <CTRL>, F3**

The switch will beep one to four times indicating the scan interval of 3, 8, 15 and 30 seconds respectively.
Change Leading Hotkey

The default leading hotkey sequence involves pressing the left `<CTRL>` twice in succession (e.g. left `<CTRL>`, left `<CTRL>`). This can be changed to the right `<CTRL>` key instead, to avoid accidental activation due to using the left `<CTRL>` key for functions such as Copy/Paste.

To change the leading hotkey sequence to Right `<CTRL>`:

**Left `<CTRL>`, Left `<CTRL>`, hold `<ALT>`, press Right `<CTRL>`**

All hotkey commands that previously required pressing the Left `<CTRL>` will be switched to requiring the right `<CTRL>` instead.

To change the leading hotkey sequence back to Left `<CTRL>`:

**Right `<CTRL>`, Right `<CTRL>`, hold `<ALT>`, press Left `<CTRL>`**
Sun/Mac Keyboard Mapping

The KVM Switch emulates a Sun Keyboard when a computer is marked with a Sun, in the OSD menu by Function Key <F5>. A Sun keyboard has more keys than a standard PC keyboard. These extra keys are simulated by tapping the Right <CTRL> button, which is normally located on the right lower part of the keyboard, followed by one of the function keys on the general keyboard (i.e. combo key). For example, tap the Right <CTRL> key, and then tap the function key F7 to activate Open for a Sun computer.

NOTE: For older Sun Operating Systems, the switch does not support the LowPower option under Power Off Select.

For keystroke emulation of Sun/Mac computers, please refer to chart and conduct the following two examples:

Stop A function in Sun: Press right <CTRL> and release, then within two seconds press F1 and A in sequence.

Help function in Sun: Press right <CTRL> and release, then within 2 seconds, press H.

<table>
<thead>
<tr>
<th>From Standard Keyboard</th>
<th>Map to Sun Keyboard</th>
<th>Map to Mac Keyboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press right - Ctrl and release; 1</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Press right - Ctrl and release; 2</td>
<td>☐-</td>
<td>☐-</td>
</tr>
<tr>
<td>Press right - Ctrl and release; 3</td>
<td>☐+</td>
<td>☐+</td>
</tr>
<tr>
<td>Press right - Ctrl and release; 4</td>
<td>☐</td>
<td>☐ note</td>
</tr>
<tr>
<td>Press right - Ctrl and release; F1</td>
<td>Stop</td>
<td>Power</td>
</tr>
<tr>
<td>Press right - Ctrl and release; F2</td>
<td>Again</td>
<td></td>
</tr>
<tr>
<td>Press right - Ctrl and release; F3</td>
<td>Props</td>
<td></td>
</tr>
<tr>
<td>Press right - Ctrl and release; F4</td>
<td>Undo</td>
<td></td>
</tr>
<tr>
<td>Press right - Ctrl and release; F5</td>
<td>Front</td>
<td></td>
</tr>
<tr>
<td>Press right - Ctrl and release; F6</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Press right - Ctrl and release; F7</td>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>Press right - Ctrl and release; F8</td>
<td>Past</td>
<td></td>
</tr>
<tr>
<td>Press right - Ctrl and release; F9</td>
<td>Find</td>
<td></td>
</tr>
<tr>
<td>From Standard Keyboard</td>
<td>Map to Sun Keyboard</td>
<td>Map to Mac Keyboard</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Press right - Ctrl and release; F10</td>
<td>Cut</td>
<td></td>
</tr>
<tr>
<td>Print Screen</td>
<td></td>
<td>F13</td>
</tr>
<tr>
<td>Scroll Lock</td>
<td></td>
<td>F14</td>
</tr>
<tr>
<td>Pause Break</td>
<td></td>
<td>F15</td>
</tr>
<tr>
<td>Press right - Ctrl and release; H</td>
<td>Help</td>
<td></td>
</tr>
<tr>
<td>Right - 📜</td>
<td>Right - 🔼</td>
<td>Right - 🍎</td>
</tr>
<tr>
<td>Left - 📜</td>
<td>Left - 🔼</td>
<td>Left - 🍎</td>
</tr>
<tr>
<td></td>
<td>Compose</td>
<td></td>
</tr>
<tr>
<td>Right - Alt</td>
<td>Alt Graph</td>
<td>Right - Option</td>
</tr>
<tr>
<td>Left - Alt</td>
<td>Alt</td>
<td>Left - Option</td>
</tr>
</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>SV431DUSBU</th>
<th>SV831DUSBU</th>
<th>SV1631DUSBU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Ports</strong></td>
<td>4</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td><strong>Console Connectors</strong></td>
<td>1 x DE-15 VGA female</td>
<td>2 x USB type A</td>
<td></td>
</tr>
<tr>
<td><strong>Computer (PC) Connectors - Per Port</strong></td>
<td>1 x DE-15 PC Connector female</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rack Mountable</strong></td>
<td>Yes (Optional for SV431DUSBU)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rack Mount Height</strong></td>
<td>1U</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Switching Methods</strong></td>
<td>Hot-key, Push Button and OSD</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LEDs</strong></td>
<td>4 x Power/Active</td>
<td>8 x Power/Active</td>
<td>16 x Power/Active</td>
</tr>
<tr>
<td><strong>Front Push Buttons</strong></td>
<td>4 x Push Button</td>
<td>8 x Push Button</td>
<td>8 x Push Button</td>
</tr>
<tr>
<td><strong>Maximum Video Resolution</strong></td>
<td>1920x1440</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>On Screen Display (OSD)</strong></td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cascadable</strong></td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Number of Cascaded Computers</strong></td>
<td>16</td>
<td>64</td>
<td>136</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>5°C to 40°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-20°C to 60°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>80% RH</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power Adapter</strong></td>
<td>9-12VDC, 500mA(min.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>220.0mm x 130.0mm x 44.0mm</td>
<td>438.0mm x 180.0mm x 44.0mm</td>
<td>438.0mm x 180.0mm x 44.0mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1.5kg</td>
<td>2.9kg</td>
<td>3.1kg</td>
</tr>
</tbody>
</table>
Technical Support

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