

CABINET COMMAND CONSOLE

1U Cabinet Command Console for KVM Switches

CABCONS1
CABCONS8
CABCONS16

Instruction Guide



*CABCONS1 shown
*Actual product may vary from photo

StarTech.com



The Professionals' Source for Hard-to-Find Computer Parts

Table of Contents

Introduction	2
Installation	3
Connecting Your Computers	5
Cascading Your KVMs	5
Using Your Consoles.....	6
Troubleshooting	10
Technical Specifications.....	12
Technical Support	14
Warranty Information.....	14

Introduction

Thank you for purchasing a StarTech.com 1U cabinet console for 19" cabinets. The console features a high-resolution 1024x768 active matrix TFT LCD and a built-in touchpad and keyboard. At less than 1U of height, these consoles can easily be slid in and out of your cabinet without scratching any equipment above or below.

The CABCONS1 features three standard connectors for one PS/2 keyboard, one PS/2 mouse, and one HD-DB15 monitor. This allows you to plug the CABCONS1 into a KVM switch of any type or directly into a computer.

The CABCONS8 and CABCONS16 features built-in KVM switches with 8 and 16 3-in-1 ports. Designed for use with StarTech.com's special ultra-thin KVM cables, these 1U consoles allows you to connect a maximum number of computers with a minimum of space.

Features

- Cascade configuration expands system capability
- OSD (On-screen display) allows you to name computers, select computers from a list and configure settings with easy-to-use menus (CABCONS8, CABCONS16 only)
- Special StarTech.com ultra-thin KVM cables are included with CABCONS8 and CABCONS16
- Auto-scan automatically scrolls through computers sequentially
- Allows you to assign names to each computer (up to 14 characters)
- Password security locks computer from unauthorized access
- Hotkey commands allow easy computer access
- Operating system independent, transparent to all applications
- Cascadable for 19" rack-mountable PS/2 KVM switches
- Backed by StarTech.com's 1 year warranty

Before You Begin

To ensure a quick and easy console installation, please read through this section carefully before attempting to install the device.

Contents

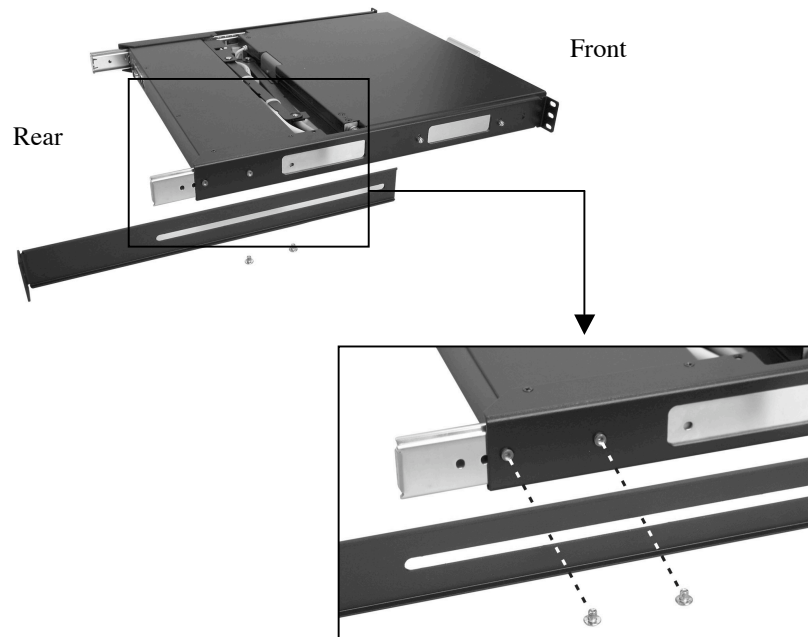
This package should contain:

- 1 x cabinet console
- 1 x power adapter
- 1 x power plug
- 2 x rack mount brackets
- Assorted screws
- 2 x serial to PS/2 adapters (CABCONS8, CABCONS16 only)

Installation

This section will guide you through the installation of your cabinet console. Please read through this section carefully and complete each step in the order listed.

1. Remove the four screws (two on each side) from the side of the console.
2. Place the rack mounts alongside the console with their tabs facing outwards. Using the screws you removed in the previous step, secure the rack mounts to the console. The rackmount brackets should be able to slide back and forth to allow you to adjust for the depth of your cabinet.



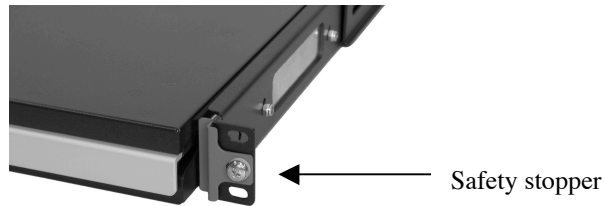
When properly connected, the rack mount adapters should fit on the console as follows (top view):



- Place the console at the appropriate location in your cabinet. Adjust the rack mount brackets to the proper length and tighten screws holding the rackmount brackets (see step 2). Then secure the console to the cabinet in the manner shown below. Make sure you secure the console on all four sides.



- A safety stopper has been added to the console to prevent damage during transit. You can remove this safety stopper now by loosening the screw and removing the red tab.



Connecting Your Computers

Before connecting your computers to the console, make sure **ALL** devices are powered off and unplugged.

CABCONS1

1. Use a male-male PS/2 cable to connect your PC's mouse port to the console's mouse port.
2. Use a male-male P2/2 cable to connect your PC's keyboard port to the console's keyboard port.
3. Use a male-female HDDB-15 video cable to connect your PC's video port to the console's video port.
4. Plug the power adapter into the 12V DC port on the back of the console. Use the power plug to connect the adapter to a power source.
5. Turn on your PC.

CABCONS8/CABCONS16

NOTE: For the 8 and 16 port models, the **PC 7** and **PC 8** ports (marked with two mice) are capable of supporting serial mice. Plug the provided adapter into the mouse connector on the 3-in-1 cable to connect to your computer's serial port.

NOTE: For the 8 and 16 port models, the **Local** port is used for diagnostic purposes only. Do not connect a computer to this port.

NOTE: The **Link** port located under the power connector is intended for use with the StarTech.com SV831MEDIA, a multimedia expansion pack that allows you to add audio, video, microphone and other VGA functions to eight PCs. Visit www.startech.com for product information.

1. Connect the three-pronged end of the cable into your PC's keyboard, mouse, and video port.
2. Connect the single-end into an open PC port on the back of the console.
3. Repeat steps 1 and 2 for each computer you want to connect to your console.
4. Connect the 12V power adapter to the power port on the back of the console. Use the power cord to connect the power adapter to a power source.
5. Turn on all computers.

Cascading Your KVMs (CABCONS8, CABCONS16 only)

Each cabinet console is capable of supporting multiple cascaded slave KVMs. To cascade KVMs, use the appropriate KVM cable(s) to connect one of the CABCONSx ("Master") PC ports to the console port on another KVM switch ("Slave").

All devices must be turned off before being connected to the Master KVM. You do not have to turn off the KVM to add or remove new devices. If you make a change to your configuration, the KVM will automatically update the change on the OSD.

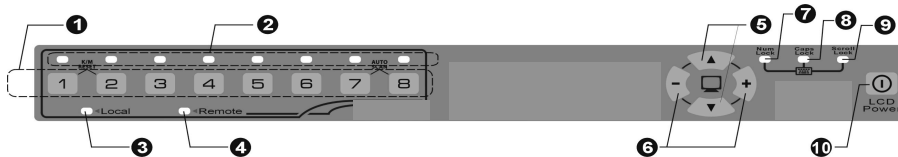
The Master KVM must have at least as many or more ports than the Slave KVMs connected to it. For example, the CABCONS8 can only support Slave KVMs with 8 ports or less. For the CABCONS16, only ports labelled "PC1" to "PC8" can be used for cascading. Ports labelled "PC A" to "PC H" can only be connected to PCs. The CABCONS16 is capable of supporting 16-port Slave KVMs.

Using Your Console

You can operate your console through one of three methods: pushbuttons, hotkey commands, or through the OSD menu.

Pushbuttons

The pushbuttons are located above the console keyboard.



1. Computer Selection Pad: Press one of these buttons to select the corresponding computer.
2. Selected Computer LEDs: The red LED indicates which computer is active.
3. Local Console in Operation
4. Remote Console in Operation
5. LCD Panel Menu: Brings up the OSD menu for the LCD panel.
6. LCD Panel Adjustment: Adjusts settings for LCD panel.
7. Num Lock LED: Keyboard Num Lock status.
8. Caps Lock LED: Keyboard Caps Lock status.
9. Scroll Lock LED: Keyboard Scroll Lock status.
10. LCD Panel Power Switch

K/M RESET

If you are experiencing difficulties with your touchpad or mouse or there are problems after you have changed the configuration of your console, press and hold the **1** and **2** pushbuttons for **two seconds** to reconfigure the system without having to turn off the console or any of the computers.

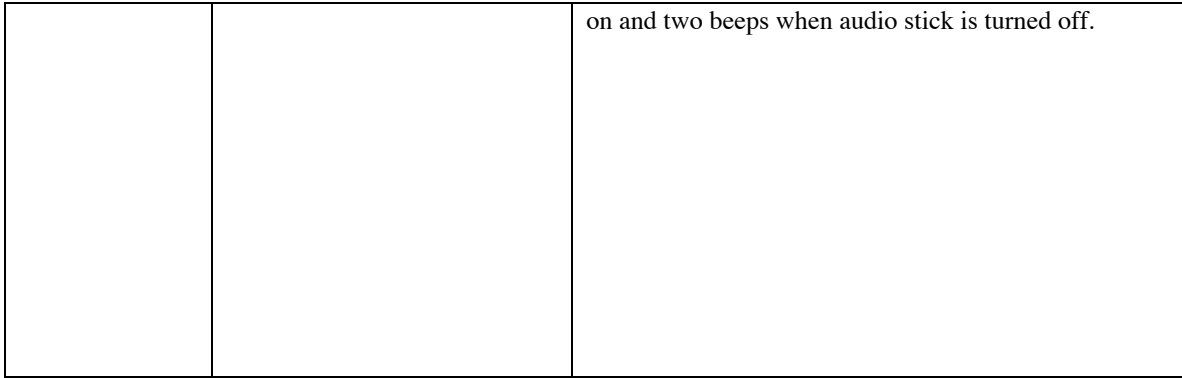
AUTO SCAN

In auto-scan mode, the console will automatically switch between computers sequentially in a fixed interval. To begin auto-scan mode, press and hold the **7** and **8** pushbuttons for **two seconds**. To edit your auto-scan settings, see the Hotkey Commands and OSD Menu sections on the following pages.

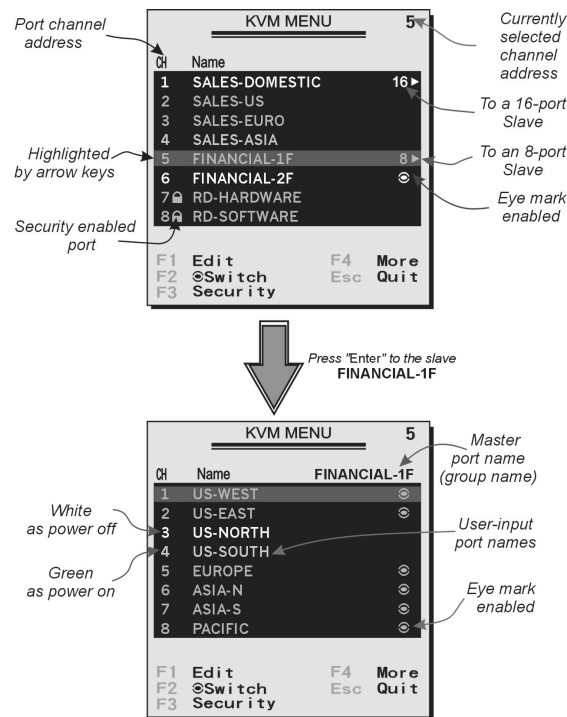
Hotkey Commands

A hotkey command is a short keyboard sequence used to select a computer, activate scanning, etc. A hotkey sequence always begins with two **left Ctrl** keystrokes, followed by one or two more keystrokes. When entering numbers, do **not** use the keypad at the right of the keyboard. The console's built-in buzzer will generate a high-pitched beep for correct hotkey sequences and a low-pitched beep for incorrect sequences.

COMMAND	HOTKEY SEQUENCE	DESCRIPTION
Select computer	Left Ctrl + Left Ctrl + x	<p>Selects the computer connected to console port "x".</p> <p>For a computer connected directly to the console, "x" would be 1~8 or A~H. (Ex. Left Ctrl + Left Ctrl + B would select the computer connected to the "PC B" port on the console.)</p> <p>For cascaded computers, you must first enter the port number of a slave KVM connected to the console. Then enter the port number on the slave KVM where the PC is connected. (Ex. Left Ctrl + Left Ctrl + 3 + 1 would select the computer connected to port 1 of the slave KVM that is connected to port 3 on the console.)</p>
Start auto-scan	Left Ctrl + Left Ctrl + F1	Automatically scans through powered-on computers. When keyboard or mouse activity is sensed, auto-scan pauses until activity stops.
End auto-scan	Left Ctrl + Left Ctrl	Exits auto-scan mode.
Adjust auto-scan rate	Left Ctrl + Left Ctrl + F3	Scrolls between the different auto-scan intervals. The console will generate one to four beeps corresponding to 3, 8, 15, and 30 seconds respectively to signify the selected auto-scan interval.
Manual Scan	Left Ctrl + Left Ctrl + F2 + ↑	Use the up and down arrow keys to scroll to the previous or next computer in the sequence. Press any other key to abort manual scan.
Adjust keyboard typematic rate	Left Ctrl + Left Ctrl + F4	Scrolls between the different typematic rates. This setting over-rides that of the BIOS and the operating system. The console will generate one to four beeps corresponding to 10, 15, 20, and 30 characters/sec respectively to signify the typematic rate.
Audio stick	Left Ctrl + Left Ctrl + F5	<p>CABCONS8 and CABCONS16 only: If you have the optional SV831MEDIA (not included) connected to your console's Link port, you can choose whether or not to have your audio follow computer selection. When audio stick is on, the audio selection follows the computer selection so that the audio matches the selected computer. When audio stick is turned off, audio selection stops following computer selection. This is useful if you want to monitor one computer's audio signal while operating other computers. The console generates one beep when audio stick is turned on and two beeps when audio stick is turned off.</p>



OSD Menu (CABCONS8, CABCONS16 only)



To bring up the on-screen display (OSD) menu, hit **left Ctrl** three times within two seconds. The OSD menu gives you basic information about your system:

- The selected computer is listed in red in the top right hand corner of the OSD menu. Use the **Up** and **Down** arrow keys to highlight computers or enter the port number (1~8, A~H). For the 16-port model, use the **Page Up** and **Page Down** buttons to view the other computers. To select a highlighted computer, press **Enter**.
- Computers listed in green are powered on and ready for operation.
- Computers listed in white have no power.
- Computers with a number and a triangle (4) indicate a cascaded slave KVM. In the example above, port 5 is an 8-port KVM. To view the PCs connected to a cascaded KVM, highlight the KVM and press **Enter**. The name of the KVM will be visible at the top right of the OSD.
- An eye mark (◻) indicates that a computer has been selected for auto-scan mode.
- A lock mark (🔒) indicates that a PC has been locked with a password.
- Pressing the **Escape** key will exit the OSD menu.

There are a number of function keys available from the OSD screen:

F1: Edit the name of a computer.

- Highlight a port then press the **F1** key followed by the name you want to give to the device at that port. Valid characters are A~Z, 0~9, and the dash character (-). All letters will appear in uppercase. Use the **Backspace** key to delete one letter at a time. Non-volatile memory stores all name entries until you change them, even if the unit is powered down.

F2: Select a computer for scan mode.

- Highlight a computer and press **F2** to switch the eye mark (□) on and off. See *Scan Type* below for more options concerning scan mode.

F3: Lock a computer from unauthorized access.

- To lock a device, highlight it and press **F3**. Now enter a password of up to four characters (A~Z, 0~9) followed by **Enter**. A lock mark (□) will appear beside the PC in the OSD. To access a locked device, highlight it in the OSD and press **Enter**. You will be prompted for the password. When you enter the password correctly, you will be able to access the PC. The device will automatically be re-locked when you access another PC. Locked PCs are not accessed by scan mode. To remove the password protection on a device, highlight it, press **F3**, and enter the password.

F4: More functions

Pressing **F4** will bring up more functions. Navigate the functions by using the up and down arrow keys and press **Enter** to select a function.

- Auto scan: To begin auto-scan mode, highlight this function and press **Enter**. To exit auto-scan mode, press **Left Ctrl** twice.
- Manual scan: To begin manual scan, highlight this function and press **Enter**. Use the up and down arrow keys to select the previous and next computers. Press any other key to abort manual scan mode.
- Audio stick (CABCONS8, CABCONS16 only): If you have connected a StarTech.com SV831MEDIA device, you can choose to turn audio stick **on** (audio selection follows computer selection) or **off** (audio selection stops following the computer selection).
- Scan Type: There are three options in scan type.
 - Ready PC + □: Scans through powered-on computers selected for scan mode.
 - Ready PC: Scans through all powered-on computers.
 - □ Only: Scans through any computers selected for scan mode regardless of power status.
- Scan Rate: This function sets the duration of the scan rate for auto-scan mode. The options are 3, 8, 15, and 30 seconds. The non-volatile memory stores the scan rate settings.
- Keyboard Speed: This function sets the keyboard typematic rate that overrides the settings in the BIOS or the OS. Available options are Low (10 characters/sec), Middle (15 characters/sec), Fast (15 characters/sec), and Faster (30 characters/sec). The non-volatile memory stores the keyboard rate setting.
- Hotkey Menu: When this function is **on**, if you hit the **Left Ctrl** key twice within two seconds, the Hotkey Menu will appear displaying a list of hotkey commands. You can turn this function **off** if you prefer not to see the hotkey menu. The non-volatile memory stores the hotkey menu.

- **CH Display:** When **Auto Off** is selected, the port number and name will disappear after three seconds on the screen once a computer is selected. When **Always On** is selected, the port number and name remain all the time. The non-volatile memory stores the CH display settings.
- **Position:** You can choose between the **Upper Left, Upper Right, Lower Left, and Lower Right** of the screen to display a computer's name and/or OSD status. The actual display position shifts due to the different VGA resolutions. The higher the resolution, the higher the display position.

Troubleshooting

First make sure that all cables are connected to their proper ports and are firmly seated. If you are experiencing keyboard and mouse difficulties, perform a K/M reset by pressing and holding the **1** and **2** pushbuttons for two seconds.

My console is not working.

- The console might not be powered. Connect the power adapter, turn on the TFT LCD panel and press one of the buttons near the right side of the keyboard to pop up the OSD menu. If the OSD pops up, the console is working.

There is no image on the screen or no OSD menu.

- The computer you have selected is not turned on.
- The external power supply is not connected.
- Connect a VGA monitor to the LOCAL port and check if there is a VGA signal. Both the VGA monitor and the console monitor should have the same image.

The letters on the TFT LCD monitor are blurry or have shadows.

- Make sure that the VGA resolution on your PCs is set to 1024 x 768 with “Large Fonts” selected for the best performance.

I have forgotten my password.

- Hold down pushbuttons **1** and **2**, then **7** and **8**. Then release buttons **7** and **8**, then release **1** and **2**.

The cascaded configuration does not work.

- Make sure that the slave’s CONSOLE port is connected to one of the MASTER’s PC1~PC8 ports.
- Press and hold the **1** and **2** pushbuttons to perform a keyboard/mouse reset.
- Make sure that all slaves have no power (unplug all power supplies) before connecting them to the master unit.

The keyboard strokes are shifted.

- The computer was shifted when last switched. Press both SHIFT keys.

The up and down arrows do not work in manual scan mode or auto-scan does not switch computers.

- All PCs are off or there is only one PC with power. Scans only work with powered computers.
- Scan Type is not set correctly. See *Scan Type* on page 9.

There are double OSD images when using a cascaded configuration.

- Press and hold the **1** and **2** pushbuttons to perform a keyboard/mouse reset.
- Make sure that all slaves have no power (unplug all power supplies) before connecting them to the master unit.

The OSD menu is not in the proper position.

- The OSD menu’s size and position varies and shifts as the computer’s VGA resolution changes. Try positioning the OSD in the Upper Left or Upper Right (see *Position* on page 9). When in the Lower Left or Lower Right positions, the OSD menu appears to be closer to the middle of the screen.

Computer can not use serial mouse.

- Make sure the adapter is firmly connected.
- Make sure you are using the mouse adapter than came with the system.
- Mouse conversion is only available on the **PC7** and **PC8** ports (marked with two mouse icons).
- Use only 6-wire PS/2 mouse cables.

Can not select a computer that is connected to a slave.

- Only ports **PC1~PC8** can be connected to slave KVMs.
- Make sure that the slave's CONSOLE port is connected to one of the master's **PC1~PC8** ports.
- Only one level of slave units is allowed.

The system occasionally fails to function.

- Make sure that the external power supply is connected and secured.

Technical Specifications

Specifications	CABCONS1	CABCONS8	CABCONS16
On-screen display	No	Yes	Yes
Push button selection	N/A	8	8
Hot Plug n Play	Yes		
Hotkey controls	Yes		
Auto-scan intervals	3, 8, 15, 30 seconds		
Rackmounted	Yes, 19" industry standard		
Cables included	No	6 x 5.9 ft (1.8m) 2 x 9.8 ft (3.0m)	12 x 5.9 ft (1.8) 4 x 9.8ft (3.0m)
VGA Bandwidth	1920 x 1440, DDC2B (rear port)		
Cable Length (max)	100 ft (30 m) at PC ports		
Computer connector	1 x PS/2 (mouse) 1 x PS/2 (keyboard) 1 x HDB-15 (monitor)	8 x HDB-15 female	16 x HDB-15 female
Console connector	PS/2 PS/2 HDB-15 female		
Dimensions (L x W x H)	22 x 19 x 1.75 in. (55.8 x 48.3 x 4.45 cm)		
Rearmount brackets	Included, 1U height		
Rack cabinet depth	18 7/8 to 36 5/8 in. (48 to 93 cm)		
Size	1U		
Power supply (min)	12VDC, 3.75A		

LCD Panel Specification:

LCD size	15.1" TFT
Active Display Area	304.1 x 228.1 (mm)
Pixel Pitch (mm)	0.297 (H) x 0.297 (V)
Resolution	1024 x 768
Brightness	250 cd/m ²
Contrast Ratio	350:1
Display Color	16.7M (8 bits/color)
Viewing Angle	-60~60(H) -55~45(V)(Typ.)

Video/Keyboard/Mouse Specification:

User Control	OSD Control (auto saving)
Input Signal	RGB analog, H/V separate
Plug-n-Play VESA	VESA DDC 1/2B
Power Consumption	33W typical, normal operation
Power Management	VESA DPMS compliant "on" mode: 23.2W "stand-by" mode <= 1W "suspend" mode <= 1W "off" mode <= 1W
Scanning Frequency	H:30-68Khz;V:50-75Hz
Keyboard	105 Key, PS/2
Mouse Touch Pad	PS/2

Technical Support

The following technical resources are available for this StarTech.com product:

On-line help:

We are constantly adding new information to the *Tech Support* section of our web site. To access this page, click the *Tech Support* link on our homepage, www.startech.com. In the tech support section there are a number of options that can provide assistance with this card.

Knowledge Base - This tool allows you to search for answers to common issues using key words that describe the product and your issue.

FAQ - This tool provides quick answers to the top questions asked by our customers.

Downloads - This selection takes you to our driver download page where you can find the latest drivers for this product.

Call StarTech.com tech support for help: **1-519-455-4931**

Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)

Warranty Information

This product is backed by a one-year warranty. In addition StarTech.com warrants its products against defects in materials and workmanship for the periods noted below, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

Limitation of Liability

In no event shall the liability to StarTech.com Ltd. (or its officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

