Slideaway™ LCD Console

CL1000

User Manual

www.aten.com

FCC Information

This is an FCC 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.

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.

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。

User Information

Online Registration

Be sure to register your product at our online support center:

International	http://support.aten.com
North America	http://www.aten-usa.com/product_registration

Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-10-5255-0110
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988
United Kingdom	44-8-4481-58923

User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

A typical LCD (Liquid Crystal Display) monitor has millions of pixels. A dead pixel refers to a pixel with a defect in its ability to display the correct color output. It most often looks like a tiny black or white spot on your screen, although it can be any other color. Since even a tiny dust particle on one of the pixels during the manufacturing process or a slight bump during shipping can create a dead pixel, the ISO 13406-2 norm defines 4 classes of acceptable screens with dead pixels--Class 1 is the best; Class 4 is the worst. Almost all manufacturers use Class 2 to establish their warranties, which allows a certain amount of dead pixels to exist before they will replace the screen. Since the manufacturers consider these screens to be acceptable under ISO specifications, we cannot be responsible for replacement or warranty of the TFT LCD panel.

Package Contents

Basic Package

The basic CL1000 package consists of:

- 1 CL1000 with Standard Rack Mount Kit
- 1 Custom KVM Cable Set
- 1 Power Cord
- 1 User Manual*
- 1 Quick Start Guide

Optional Equipment

Depending on any optional equipment that you may have purchased, one of the following may be included in your package:

- Standard Rack Mount Kit - Long
- Easy-Installation Rack Mount Kit - Short
- Easy-Installation Rack Mount Kit - Long

Check to make sure that all the components are present and that nothing got damaged in shipping. If you encounter a problem, contact your dealer.

Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit, and/or any of the devices connected to it.

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* Features may have been added to the CL1000 since this manual was printed. Please visit our website to download the most up-to-date version of the manual.

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About this Manual

This User Manual is provided to help you get the most from your CL1000 system. It covers all aspects of installation, configuration and operation. An overview of the information found in the manual is provided below.

Chapter 1, Introduction, introduces you to the CL1000 system. Its purpose, features and benefits are presented, and its front and back panel components are described.

Chapter 2, Hardware Setup, provides step-by-step instructions for setting up your installation, and explains some basic operation procedures.

Chapter 3, Operation, explains the fundamental concepts involved in operating the CL1000.

An Appendix, provides specifications and other technical information regarding the CL1000.

Conventions

This manual uses the following conventions:

`Monospaced`	Indicates text that you should key in.
[ ]	Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1.	Numbered lists represent procedures with sequential steps.
♦	Bullet lists provide information, but do not involve sequential steps.
→	Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start → Run means to open the *Start* menu, and then select *Run*.
⚠	Indicates critical information.

Product Information

For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International	http://www.aten.com
North America	http://www.aten-usa.com

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Chapter 1
Introduction

Overview

The CL1000 is a KVM console module that feature an integrated LCD panel, full keyboard, and touchpad in a 1U rack-mountable sliding housing. It was developed in response to the enormous popularity of the sliding console found on the CL1008 and CL1016 KVM switches. Those switches are made up of two major modules: the front-end sliding KVM Console module, and the back-end KVM Switch module.

The CL1000 is similar to the front-end Console module found on the CL1008 and CL1016. Its purpose is to serve as the front end sliding console for compatible KVM switches.[1] By only having to purchase the CL1000, users who already have a compatible KVM switch can take advantage of the space saving and efficiency benefits of the sliding console module without the unnecessary expense of having to purchase a model that includes a KVM switch module.

Setup is fast and easy. Simply use the KVM cable set supplied with this package to link the CL1000's KVM port to the console port of your KVM switch and you are ready to go.

1. The CL1000 supports most KVM switches that have PS/2 console port connectors. If you are unsure if your switch is supported, check with your dealer.

Features

- Integrated KVM console with a 17" LCD monitor in a sliding housing with top and bottom clearance for smooth operation in a 1U high system rack
- LCD module rotates up to 115º for a more comfortable viewing angle
- Standard rack mount kit included – optional *Easy Rack Mounting* (single person installation) rack mount kit available (requires separate purchase)
- Compatible with most PS/2 KVM switches
- Internal power supply
- High video resolution:
  - Up to 1280 x 1024 @75Hz
  - Supports DDC, DDC2, DDC2B
  - DDC emulation of the LCD monitor
  - Video settings of attached computers are automatically adjusted for optimal output to the LCD monitor
- Keyboard language support: English (US); English (UK); French; German; German (Swiss); Italian; Japanese; Hungarian; Korean; Spanish; Swedish; Traditional Chinese; Russian

Requirements

Switches and Computers

- The CL1000 supports most KVM switches that have PS/2 console port connectors. If you are unsure whether your switch is supported or not, check with your dealer.
- The integrated LCD monitor's maximum resolution is 1280 x 1024 @ 75 Hz. Make sure that none of the resolution settings of the connected computers exceed the LCD monitor's maximum resolution.

Cables

For optimum signal integrity and to simplify the layout, we strongly recommend that you use the high quality custom cable set provided with this package. Different length cable sets, described in the table below, can be purchased from your dealer.

Length (m)	Part Number
1.2	2L-5201P
1.8	2L-5202P
3.0	2L-5203P
6.0	2L-5206P

Operating Systems

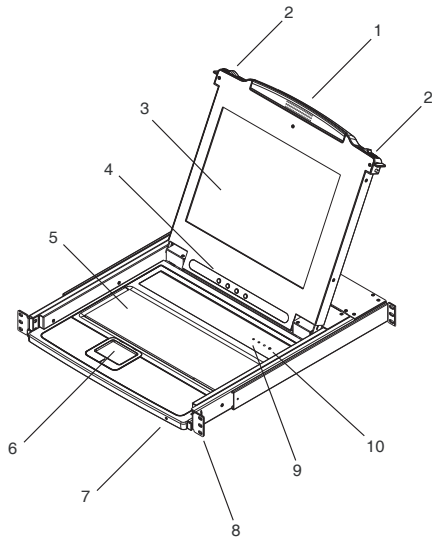
Supported operating systems are shown in the table, below:

OS		Version
Windows		2000 and higher
Linux	RedHat	7.1–7.3, 8.0, 9.0, Fedora Core 2–4
	SuSE	8.2, 9.3, 10
	Mandriva (Mandrake)	9, 2005 Limited Edition, 2006
UNIX	AIX	4.3, 5L
	FreeBSD	4.2, 4.5
Novell	Netware	5.0*, 6.0

* This operating system does not support USB.

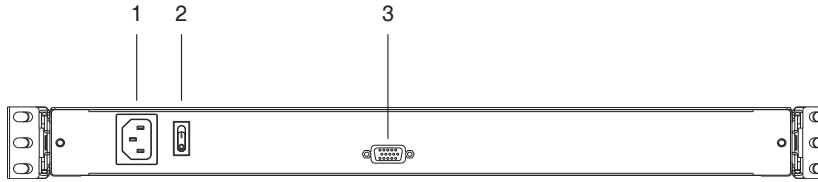
Components

Front View



No.	Component	Description
1	Handle	Pull to slide the KVM module out; push to slide the module in.
2	Slide Release	In order to slide the console out, you must first release it by moving this tab sideways. See page 11 for details on sliding the console in and out.
3	LCD Display	After sliding the KVM module out, flip up the cover to access the LCD monitor.
4	LCD Controls	The LCD On/Off switch is located here, as well as buttons to control the position and picture settings of the LCD display. See page 14, for details.
5	Keyboard	
6	Touchpad	
7	Power LED	Lights dark green to indicate that the unit is receiving power.
8	Rack Mounting Brackets	The rack mounting brackets located at each corner of the unit secure the chassis to a system rack.
9	Lock LEDs	The Num Lock, Caps Lock, Scroll Lock LEDs are located here.
10	Reset Switch	Located to the right of the Lock LEDs. Press this recessed switch in with a thin object to perform a system reset.

Rear View



No.	Component	Description
1	Power Socket	This is a standard 3-prong AC power socket. The power cord from your AC source plugs in here.
2	Power Switch	This is a standard rocker switch that powers the unit On and Off.
3	KVM Port	The cable that links the CL1000 to the KVM switch plugs in here. **Note:** The shape of this SPHD connector has been specifically modified so that only KVM cables designed to work with this switch can plug in (see *Cables*, page 3, for details).

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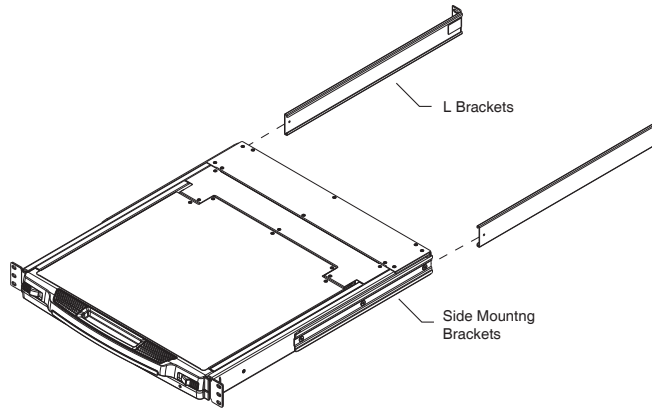
Chapter 2
Hardware Setup

Before you Begin

1. Important safety information regarding the placement of this device is provided on page 17. Please review it before proceeding.
2. Make sure that power to all the devices you will be connecting up have been turned off. You must unplug the power cords of any computers that have the Keyboard Power On function.

Standard Rack Mounting

A standard rack mount kit is provided with your CL1000. The kit enables the console to be mounted in rack with a depth of 42–72 cm.

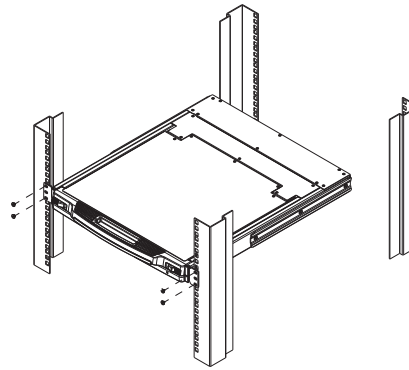


Note: 1. It takes two people to mount the console: one to hold it in place, the other to screw it in.

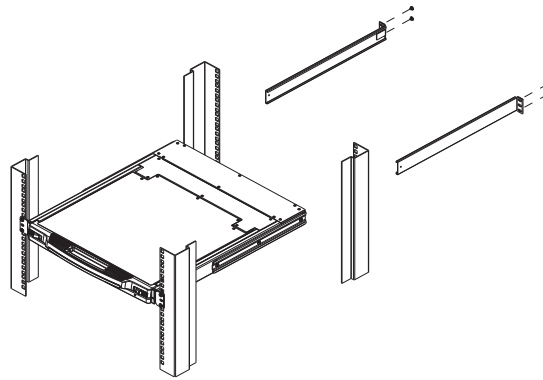
2. The standard rack mounting kit does not include screws or cage nuts. If you need additional screws or cage nuts, contact your rack dealer.
3. Optional mounting kits, including single person *Easy Installation* kits, are available with a separate purchase. See page 22 for optional rack mounting details.

To rack mount the console, do the following:

1. While one person positions the CL1000 in the rack and holds it in place, the second person loosely screws the front brackets to the rack.



2. While the first person still holds the CL1000 in place, the second person slides the L brackets into the CL1000's side mounting brackets from the rear until the bracket flanges contact the rack, then screws the L brackets to the rack.



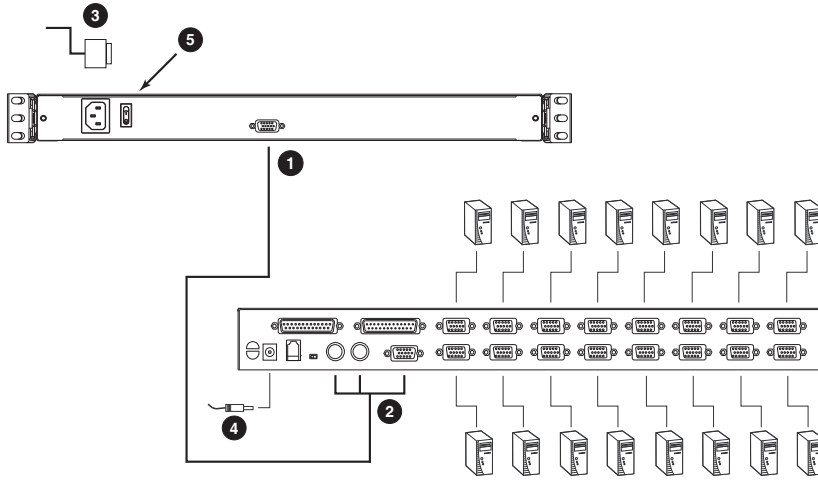
3. After the L brackets have been secured, tighten the front bracket screws.

Note: Allow at least 5.1 cm on each side for proper ventilation, and at least 12.7 cm at the back for the power cord and cable clearance.

Installation

Refer to the installation diagram as you perform the installation steps. The numbers in the diagrams correspond to the numbers of the steps.

1. Plug the SPHD connector end of the KVM cable provided with this unit into the CL1000's KVM port.
2. Plug the keyboard, monitor, and mouse connectors of the KVM cable into their respective ports on the Console Section of the KVM switch.
3. Plug the power cord into the CL1000's power socket and into an AC power source.
4. Power up your KVM installation.
5. Turn on the power to CL1000.



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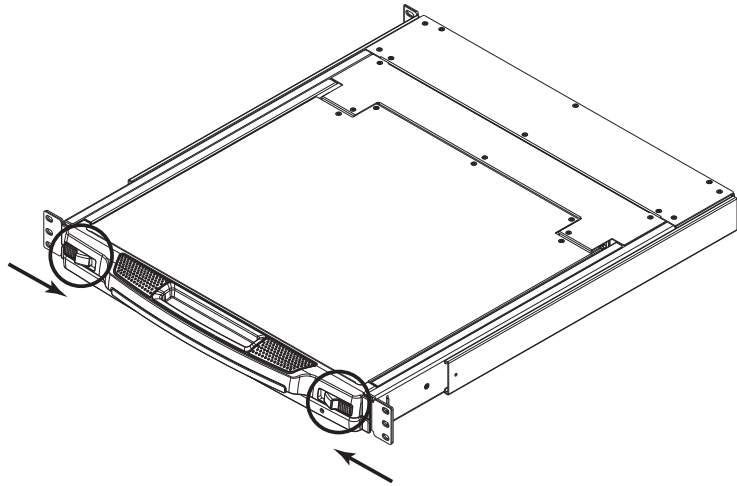
Chapter 3
Operation

Opening the Console

The CL1000's console is located under the top cover. To access the console, slide the console module out and raise the cover.

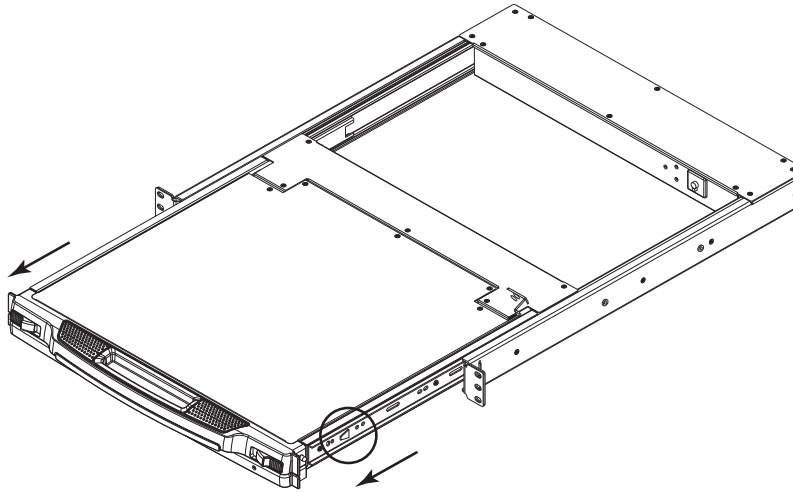
Note: As a safety precaution, to keep the console from accidentally sliding out, the console is locked into the *In* position. Before you can pull the console module out, you must release it by pushing the catches on the unit's front panel as indicated below.



Closing the Console

To slide the console module back in, close the cover and do the following:

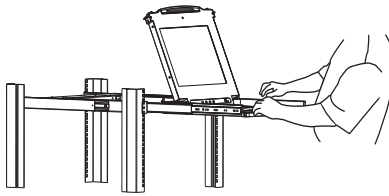
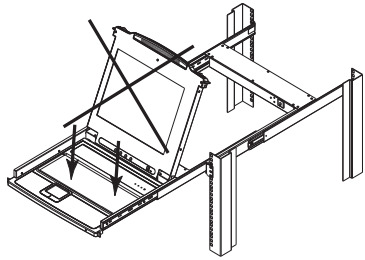
1. Pull the safety catches on the unit's side rails toward you and push the module in until it stops.
2. Release the catches. Pull the module slightly toward you, then push it all the way in.



Note: The reason for the two step procedure is to minimize the chances of you pinching your fingers when sliding the module in.

Operating Precautions

The maximum load bearing capacity of the keyboard module is 30 kg. Failure to heed the information below can result in damage to the keyboard module.

	**Right!** Rest your hands and arms lightly on the keyboard module as you work.
	**Wrong**! ◆ **DO NOT** lean your body weight on the keyboard module. ◆ **DO NOT** place heavy objects on the keyboard module.

LCD OSD Configuration

The LCD Buttons

The LCD OSD allows you to set up and configure the LCD display. Four buttons are used to perform the configuration, as described in the table, below:

Button	Function
MENU	◆ When you have not entered the LCD OSD Menu function, pressing this button invokes the Menu function, and brings up the Main Menu. ◆ When you have entered the LCD OSD Menu function, and have reached a setting choice with the navigation buttons, pressing this button brings up its adjustment screen.
▶|▲	When navigating through the menus, this button moves you Right or Up. When making an adjustment, it increases the value.
◀|▼	When navigating through the menus, this button moves you Left or Down. When making an adjustment, it decreases the value.
EXIT	◆ When you have not entered the LCD OSD Menu function, pressing this button performs an auto adjustment. An auto adjustment automatically configures all the settings for the LCD panel to what the OSD considers their optimum values to be. ◆ When you have entered the LCD OSD Menu function, pressing this button exits the current menu and returns you to the previous menu. Use it to leave an adjustment menu when you are satisfied with the adjustment you made. ◆ When you are at the Main Menu, pressing this button exits the LCD OSD.

The Adjustment Settings

An explanation of the LCD OSD adjustment settings is given in the table below:

Setting	Explanation
Brightness	Adjusts the background black level of the screen image.
Contrast	Adjusts the foreground white level of the screen image.
Phase	If pixel jitter or horizontal line noise is visible on the display, your LCD may have the wrong phase setting. Adjust the phase setting to eliminate these problems.
Clock	If vertical banding is visible on the display, your LCD may have the wrong clock setting. Adjust the clock setting to eliminate vertical banding.
H-Position	Positions the display area on the LCD panel horizontally (moves the display area left or right).
V-Position	Positions the display area on the LCD panel vertically (moves the display area up or down).
Color Temperature	Adjusts the color quality of the display. You can adjust the warmth value, color balance, etc. The *Adjust Color* selection has a further submenu that lets you fine tune the RGB values.
Language	Selects the language that the OSD displays its menus in.
OSD Duration	Lets you set the amount of time the OSD displays on the screen. If there is no input for the amount of time you choose, the OSD display turns off.
Reset	Resets the adjustments on all menus and submenus to their factory default settings. **Note:** The *Language* setting does not return to the factory default, but remains at the one that you have set it to.

Port ID Numbering & Port Selection

Port ID numbering and Port Selection follow the method used by the KVM switch connected to the CL1000. Consult your KVM switch's User Manual for details.

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Appendix

Safety Instructions

General

- Read all of these instructions. Save them for future reference.
- Follow all warnings and instructions marked on the device.
- To prevent damage to your installation it is important that all devices are properly grounded.
- Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- Do not use the device near water.
- Do not place the device near, or over, radiators or heat registers.
- The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- Never spill liquid of any kind on the device.
- Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- The device is designed for IT power distribution systems with 230V phase-to-phase voltage.
- The device is equipped with a 3-wire grounding type plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not attempt to defeat the purpose of the grounding-type plug. Always follow your local/national wiring codes.
- Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.

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- If an extension cord is used with this device make sure that the total of the ampere ratings of all products used on this cord does not exceed the extension cord ampere rating. Make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
- To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or un-interruptible power supply (UPS).
- Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.
- Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.
- If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
  - The power cord or plug has become damaged or frayed.
  - Liquid has been spilled into the device.
  - The device has been exposed to rain or water.
  - The device has been dropped, or the cabinet has been damaged.
  - The device exhibits a distinct change in performance, indicating a need for service.
  - The device does not operate normally when the operating instructions are followed.
- Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.
- Do not connect the RJ-11 connector marked “UPGRADE” to a public telecommunication network.

Rack Mounting

- Before working on the rack, make sure that the stabilizers are secured to the rack, extended to the floor, and that the full weight of the rack rests on the floor. Install front and side stabilizers on a single rack or front stabilizers for joined multiple racks before working on the rack.
- Always load the rack from the bottom up, and load the heaviest item in the rack first.
- Make sure that the rack is level and stable before extending a device from the rack.
- Use caution when pressing the device rail release latches and sliding a device into or out of a rack; the slide rails can pinch your fingers.
- After a device is inserted into the rack, carefully extend the rail into a locking position, and then slide the device into the rack.
- Do not overload the AC supply branch circuit that provides power to the rack. The total rack load should not exceed 80 percent of the branch circuit rating.
- Make sure that all equipment used on the rack – including power strips and other electrical connectors – is properly grounded.
- Ensure that proper airflow is provided to devices in the rack.
- Ensure that the operating ambient temperature of the rack environment does not exceed the maximum ambient temperature specified for the equipment by the manufacturer
- Do not step on or stand on any device when servicing other devices in a rack.
- **Caution:** Slide/rail (LCD KVM) mounted equipment is not to be used as a shelf or a work space.

Technical Support

International

- For online technical support – including troubleshooting, documentation, and software updates: **http://support.aten.com**
- For telephone support, see page iii.

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Support		1-888-999-ATEN ext 4988

When you contact us, please have the following information ready beforehand:

- Product model number, serial number, and date of purchase.
- Your computer configuration, including operating system, revision level, expansion cards, and software.
- Any error messages displayed at the time the error occurred.
- The sequence of operations that led up to the error.
- Any other information you feel may be of help.

Specifications

Function			CL1000
Connector	KVM Ports		1 x SPHD-15 Female (Yellow)
Switches	Power		1 x Rocker
	LCD Adjust		4 x Pushbutton
	Reset		1 x Semi-recessed Pushbutton
LEDs	Power		1 (Dark Green)
	Lock	Num	1 (Green)
		Caps	1 (Green)
		Scroll	1 (Green)
Emulation	Keyboard / Mouse		PS/2
Video			1280 x 1024 @ 75 Hz; DDC2B
IP Rating			100–240 V AC; 50/60 Hz; 1 A
Power Consumption			120 V, 21 W; 230 V, 24 W
Environment	Operating Temp.		0–40^{o} C
	Storage Temp.		-20–60^{o} C
	Humidity		0–90% RH Noncondensing
Physical Properties	Housing		Metal + Plastic
	Weight		12.30 kg
	Dimensions (L x W x H)		53.40 x 48.00 x 4.40 cm (19”/1U)

Optional Rack Mounting

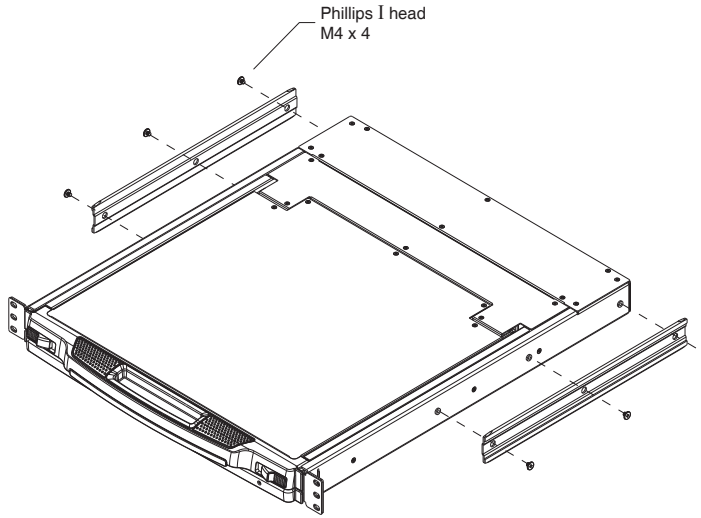
For convenience and flexibility, three optional rack mounting kits are available as shown in the following table:

Bracket Type	Size (cm)
Standard Installation – Long	68.0–100.0
Easy Installation – Short	42.0–70.0
Easy Installation – Long	68.0–105.0

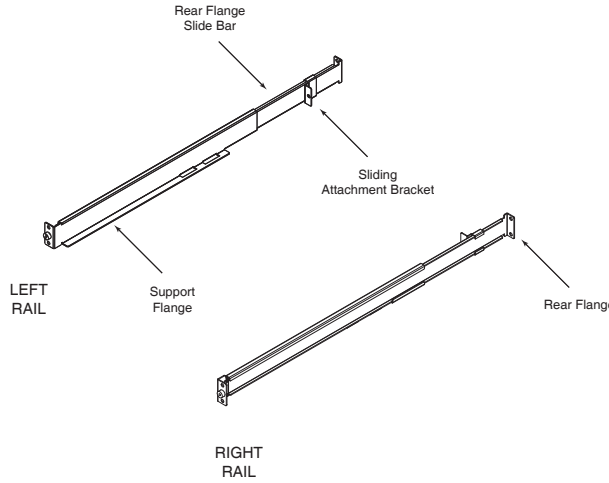
To install the long bracket standard rack mount kit, simply replace the short L brackets on the standard rack mount kit with the long ones, and mount the console according to the instructions given on page 7.

With an *Easy-Installation* kit, one person can mount the console. To install the *Easy-Installation* kit, do the following:

1. Remove the standard L brackets, and the side mounting brackets from both sides of the console.

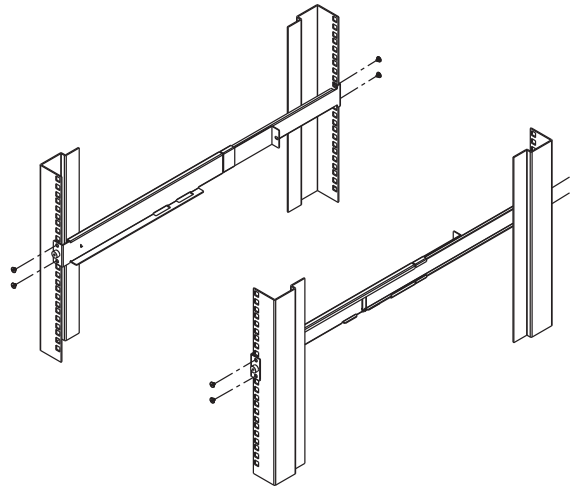


2. Attach the left and right *easy-installation* mounting rails to the inside of the rack. The flange that supports the console will be to the inside.



a) Screw the front flanges to the rack first.

b) Slide the bars with the rear flanges toward the rack until the flanges make contact with the rack, then screw the rear flanges to the rack.



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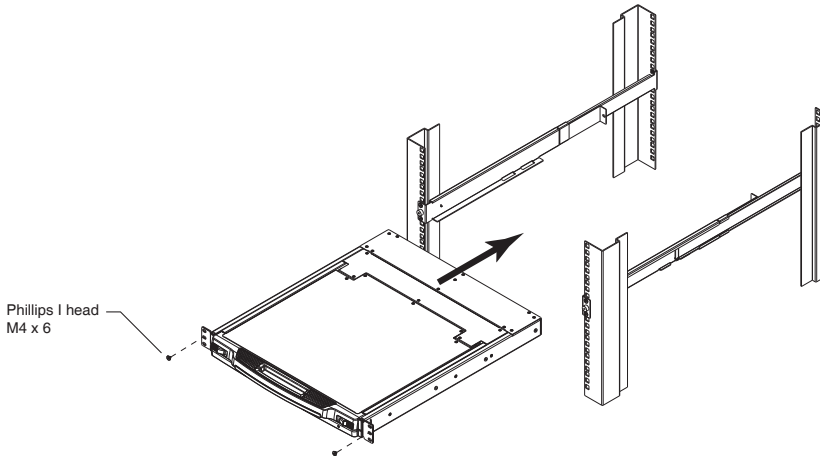
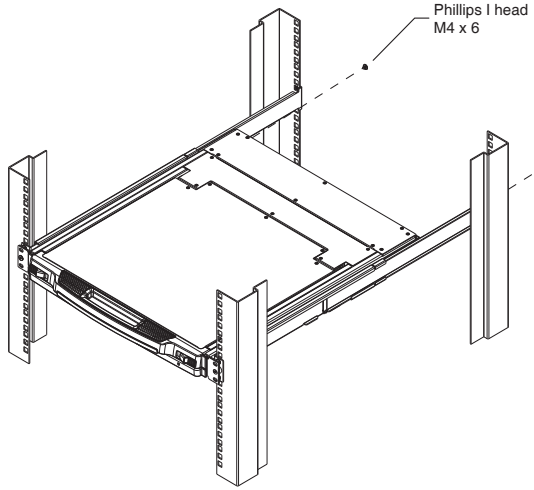
3. Slide the console onto the support flanges. Use the screws supplied with this package to loosely attach the front of the console to the front of the rack (only tighten the screws part way).

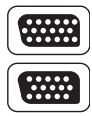


4. Slide the sliding attachment brackets along the slide bars until they contact the rear of the console, then use the screws supplied with this package to attach the bars to the rear of the console (tighten the screws all the way).



5. Slide the console open and closed a couple of times to be sure that it is properly aligned and operating smoothly. (See page 11 for opening and closing procedures.)
6. After determining that the console is properly lined up and operating correctly, finish up by fully tightening down the partially tightened front attachment screws inserted in step 3.

About SPHD Connectors



This product uses SPHD connectors for its KVM and/or Console ports. We have specifically modified the shape of these connectors so that only KVM cables that we have designed to work with this product can be connected.

Limited Warranty

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

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