



**Synergy Global Technology Inc**

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# Regulatory Notice

## Legal Information

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Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

## Safety Instructions

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the drawer is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

## Regulatory Notices Federal Communications Commission (FCC)

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.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. 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:

- Re-position 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.

# User Manual

## Rackmount Keyboard Drawer



### Models LCDK1002 Series

- With KVM options

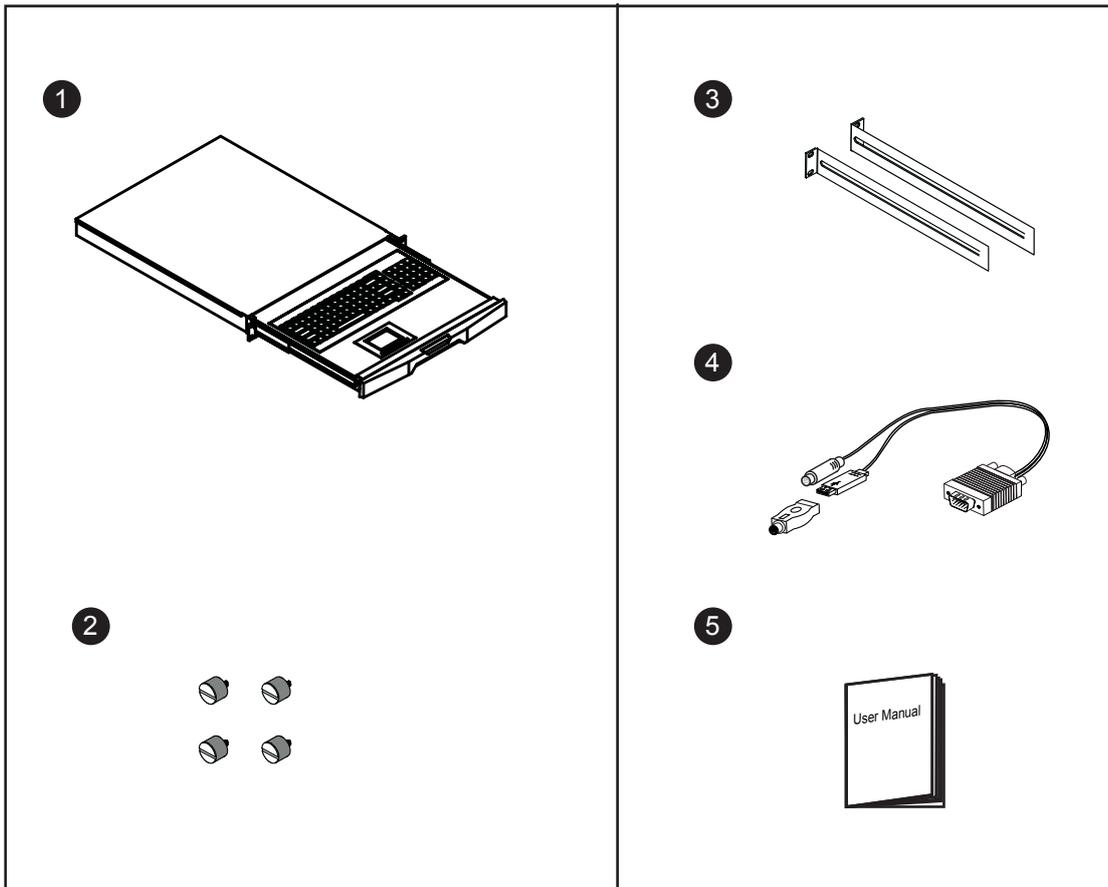


### Models LCDK1016 Series

- Short depth version
- Without KVM options

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- ① Keyboard drawer x 1 pc
- ② Fasteners for rear L-bracket x 4 pcs
- ③ 330mm rear mounting L-bracket x 1 pair
  - \* LCDK1002 series mounting depth-adjustable from 210 to 800mm
  - \* LCDK1016 series maximum mounting depth is 645mm
- ④ Combo keyboard cable x 1 pc
- ⑤ User manual x 1 pc

## 1.2 Before Installation

- It is very important to locate the Rackmount Keyboard Drawer in a suitable environment.
- The surface for placing and fixing the Rackmount Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Convenience for connecting the Rackmount Keyboard Drawer to the related facilities should be well considers too.

**Please read all of these instructions carefully before you use the device. Save this manual for future reference.**

### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - Any damage of the product due to shipment.
  - Removal or installation of the product.
  - Causes external to the product, such as electric power fluctuation or failure.
  - Use of supplies or parts not meeting our specifications.
  - Normal wear and tear.
  - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

## 1.3 Unpacking

The Rackmount Keyboard Drawer comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

## 1.4 Optional Accessories

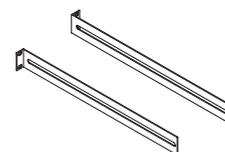
### 1. Extended rear mounting L-bracket

1.1 430mm (16.9") extended rear L-bracket for :

LCDK1002 series up to 900mm

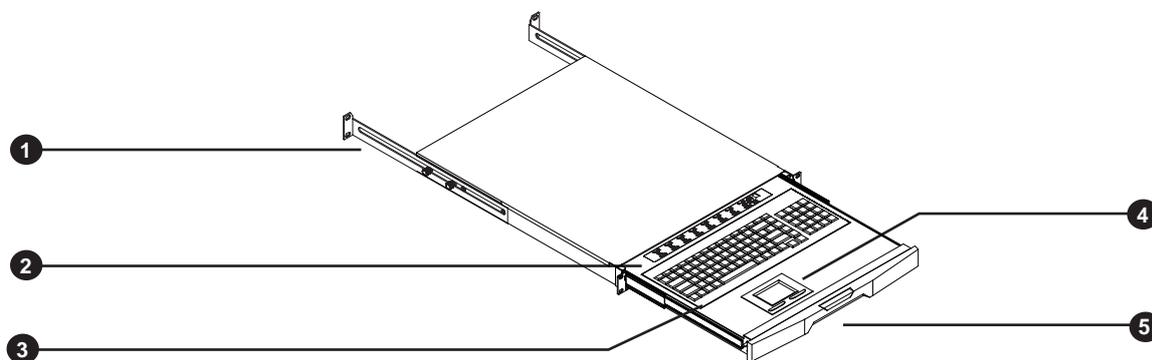
LCDK1016 series up to 745mm

\*Extended rear L-bracket in tailor-made length on request



Item	Model No.	Description
<b>Matrix Cat6 KVM</b>	LCDK2006-2 / -3 / -4 LCDK2012-31/ -41 / -42 LCDK2007-2 / -3 / -4 LCDK2013-31 / -41 / -42	Matrix Cat6 16 port KVM Matrix IP Cat6 16 port KVM Matrix Cat6 32 port KVM Matrix IP Cat6 32 port KVM
<b>Matrix DB-15 KVM</b>	LCDK2004-2 / -3 / -4 LCDK2010-31 / -41 / -42 LCDK2005-2 / -3 / -4 LCDK2011-31 / -41 / -42	Matrix DB-15 8 port KVM Matrix IP DB-15 8 port KVM Matrix DB-15 16 port KVM Matrix IP DB-15 16 port KVM
<b>Combo Cat6 KVM</b>	LCDK2001 / 2002 / 2003 LCDK1043 / 1045 / 1047 LCDK1044 / 1046 / 1048	Combo Cat6 8 port KVM Combo Cat6 16 port KVM Combo Cat6 32 port KVM
<b>Combo DB-15 KVM</b>	LCDK1020 / 1024 / 1038 LCDK1021 / 1025 / 1039	Combo DB-15 8 port KVM Combo DB-15 16 port KVM
<b>PS/2 DB-15 KVM</b>	LCDK1009 / 1010 / 1011	4 / 8 / 16 port PS/2 DB-15 KVM
<b>Rackmount LCD Drawer</b>	LCD1U15-011 / 17-011 / 19-011 LCD1U19-014	1U 15" / 17" / 19" LCD drawer 1U wide screen 19" LCD drawer
<b>Rackmount LCD Display</b>	LCDR7U17-02 / 8U19-02 / 9U20-01 LCDR7U19-03 / 8U22-03	7U 17" / 8U 19" / 9U 20" LCD display 7U 19" / 8U 22" wide screen LCD display

1.6 Structure Diagram



- ① Adjustable rear mounting L-bracket
- ② Membrane switch (for LCDK1002 with KVM option)
- ③ Keyboard interchangeable module kit
- ④ Mouse interchangeable module kit
- ⑤ Carry handle to release the 2-pt lock

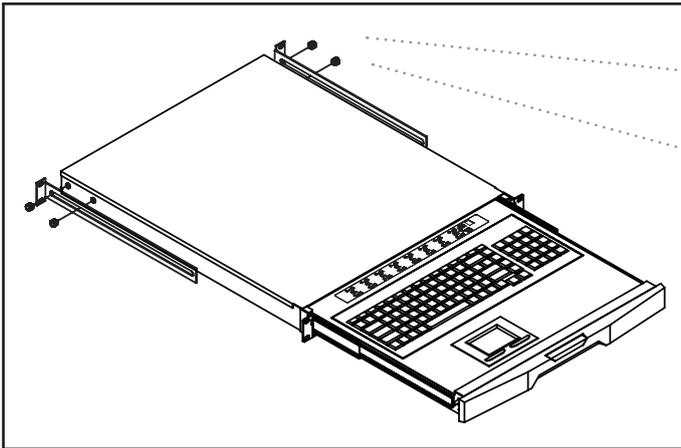


Figure 1. Installing the rear L-bracket to the keyboard drawer.

- Install each rear L-bracket using two fasteners shown in **Figure 1**.
- Leaving the fasteners slightly loose

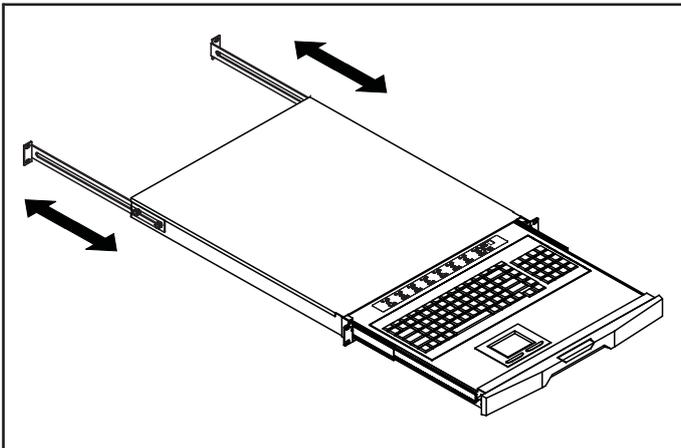


Figure 2. Aligning the rear L-brackets to a suitable length for the rack.

- Measure the front and rear mounting depth of the rack.
- Align each rear L-bracket to a suitable length and tighten the fasteners shown in **Figure 2**.

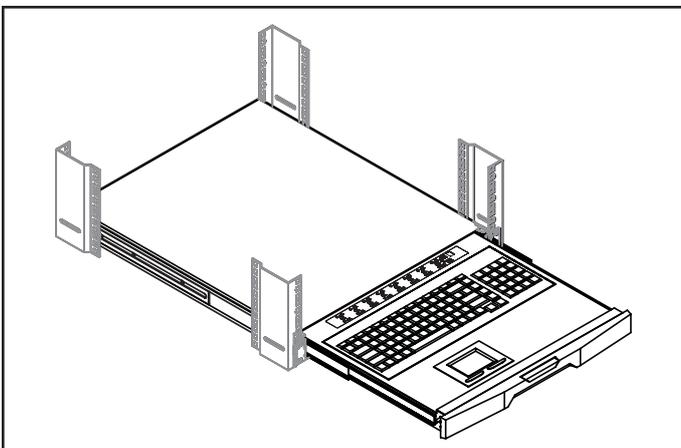


Figure 3. Fixing the keyboard drawer into the rack.

- Fixed the keyboard drawer into the rack.
- \* **Hardware (screws and cage nuts) for fixing the mounting bracket to the rack is not provided.**

## 1.8 Connect to Server via USB Interface

## Chapter 1

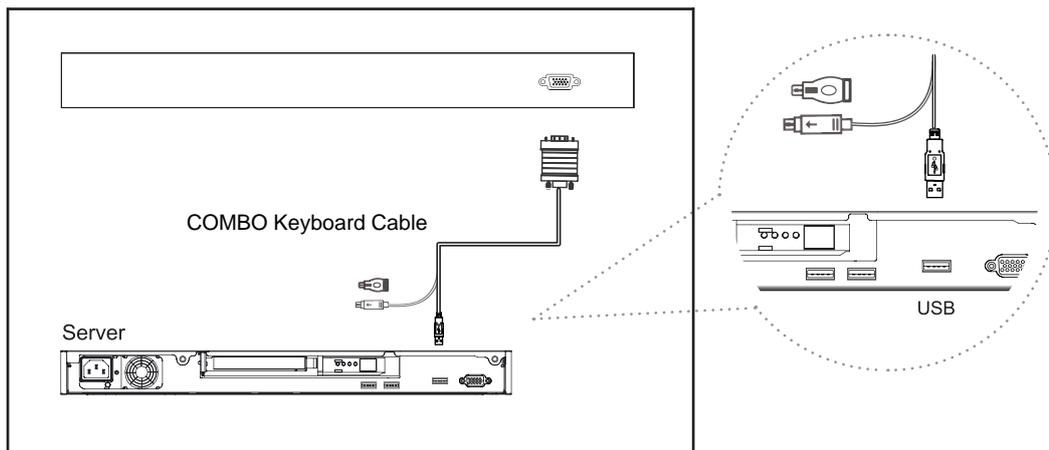


Figure 4. Example of connecting COMBO keyboard cable to server via USB interface

## 1.9 Connect to KVM via USB Interface

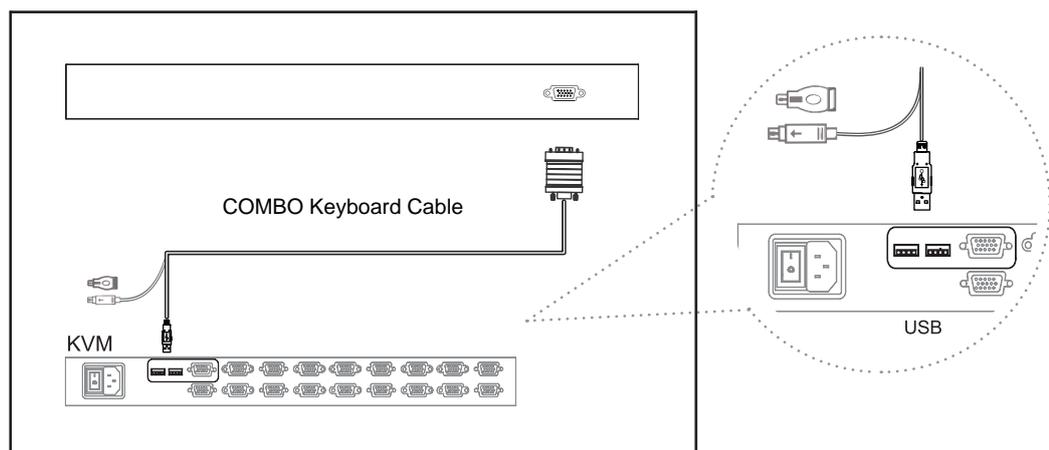


Figure 5. Example of connecting COMBO keyboard cable to KVM via USB interface

### Remarks :

- The above connection is only for the keyboard without KVM switch built-in.
- For the keyboard drawer with KVM switch built-in, please contact Synergy Global Technology Inc for information.



**Caution :** The keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and keyboard drawer. Before attempting to connect anything to the keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the keyboard is receiving power. The company is not responsible for damage caused in this way.

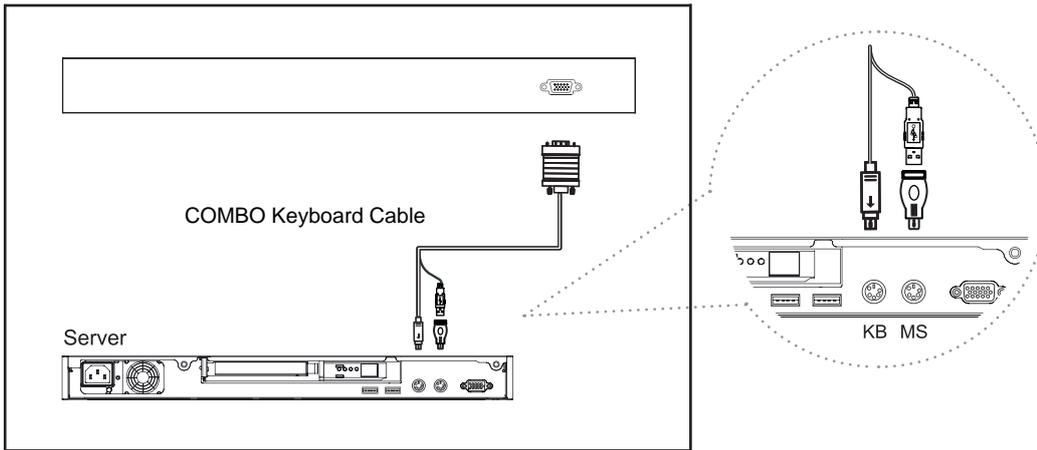


Figure 6. Example of connecting COMBO keyboard cable to server via PS/2 interface

1.11 Connect to KVM via PS/2 Interface

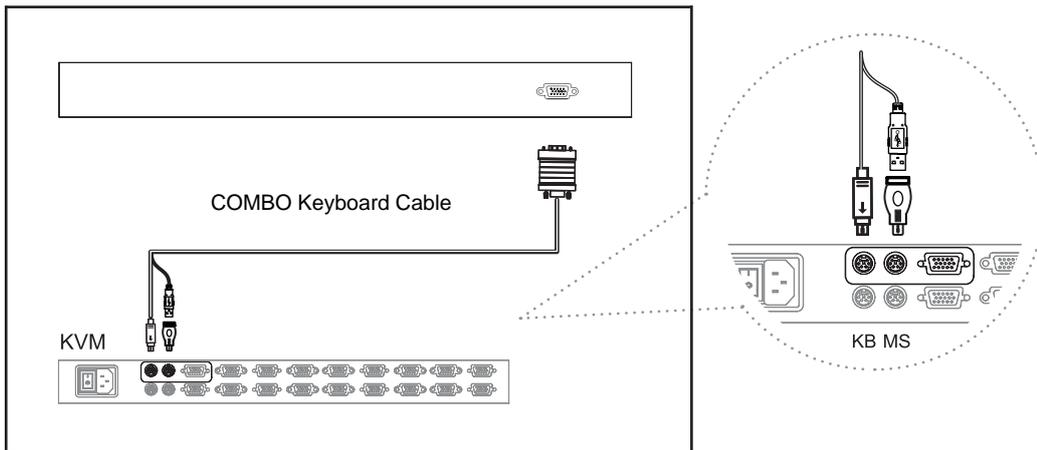


Figure 7. Example of connecting COMBO keyboard cable to KVM via PS/2 interface

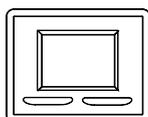
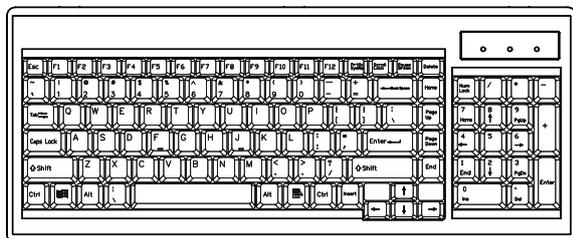
Remarks :

- The above connection is only for the keyboard without KVM switch built-in.
- For the keyboard drawer with KVM switch built-in, please contact Synergy Global Technology Inc for information.

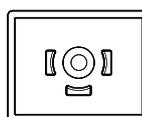
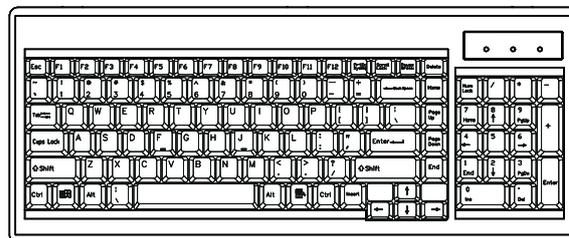


**Caution :** The keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and keyboard drawer. Before attempting to connect anything to the keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the keyboard is receiving power. The company is not responsible for damage caused in this way.

Supporting layouts

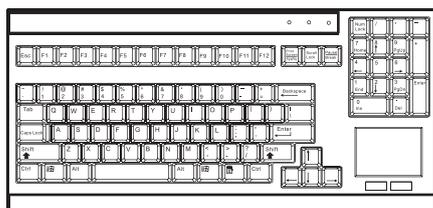


**Ne** N keyboard integrated with touchpad



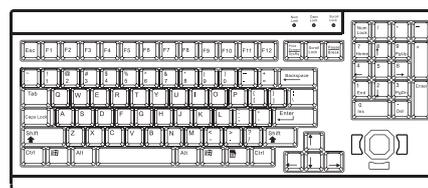
**Nb** N keyboard integrated with trackball

Supporting layouts  only



**t** Compact keyboard integrated with touch-pad mouse

Supporting layouts  only



**d** Compact keyboard integrated with trackball

## 3.1 KVM Options for LCDK1002 Series

## Chapter 3

Our KVM is designed to seamlessly integrate into the rear of our full range of keyboard drawer solutions:

- For KVM operation, please refer to KVM user manual
- Option with Multiple consoles Matrix KVM
- Option with high density & cost efficient Combo KVM integration with either 8 / 16 / 32 ports
- Option with low cost PS/2 KVM
- Please ask your supplier for full KVM details

### Remarks

- LCDK1002 series has KVM option only.

## 3.2 Environmental

Operation	0° to 50°C Degree
Storage	-5° to 60°C Degree
Relative Humidity	5~90%, non-condensing
Shock	10G acceleration (11ms duration)
Vibration	5~500Hz 1G RMS random vibration

## 4.1 Dimensions

## Chapter 4

Model	Product Dimension (W x D x H)	Net Weight
<b>LCDK1002 series (with KVM option)</b>	442 x 550 x 44.2 mm 17.4 x 21.6 x 1.74"	8 kg 18 lb
<b>LCDK1016 series</b>	442 x 400 x 44 mm 17.4 x 15.7 x 1.73"	6 kg 13 lb

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

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