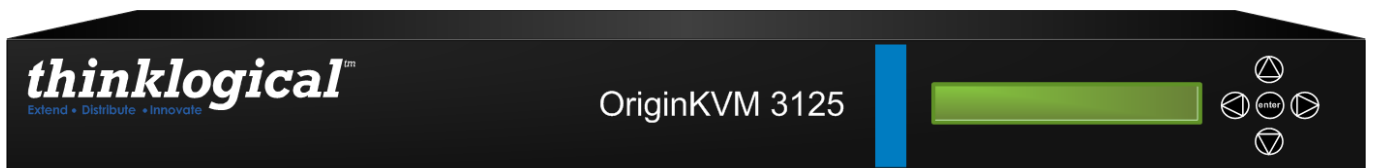


OriginKVM 3125

Product Manual



thinklogicaltm
Extend • Distribute • Innovate

**Thinklogical LLC
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Thinklogical™, a subsidiary of Logical Solutions, LLC
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Subject: OriginKVM 3125, 3x1 KVM Switch
Revision: Rev A, June 2011

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1. Introduction

1.1. Contents

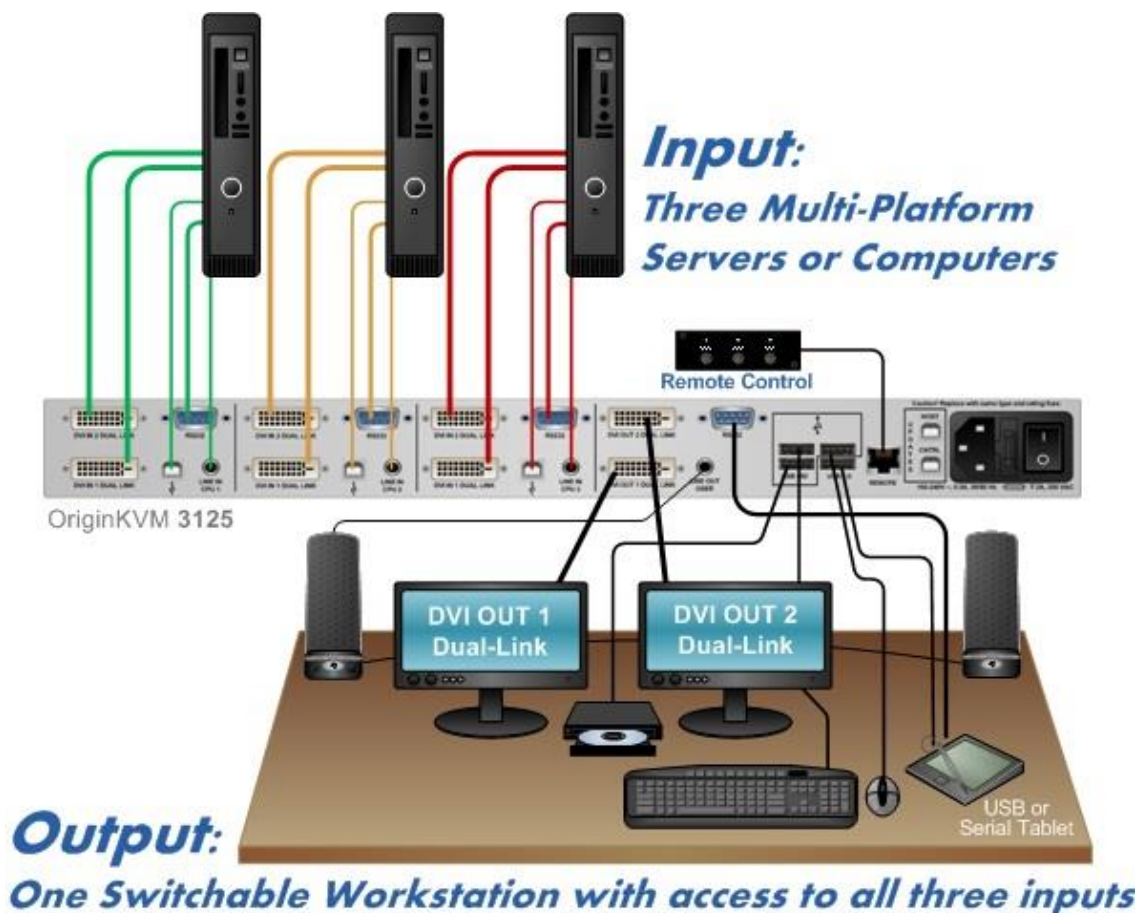
When you receive your Thinklogical™ **OriginKVM 3125**, you should find the following items:

- OriginKVM 3125 Switch – KVM-003125
- AC Power Cord – PWR-000006-R (International connections may differ)
- OriginKVM 3125 Cables (Audio, USB, Serial, CAT5, DVI Dual-Link)
- Remote Control Unit
- OriginKVM 3125 Product Manual

1.2. Product Overview

The Thinklogical™ OriginKVM 3125 is a high performance KVM switch that enables one user station to access and switch between three multi-platform servers or computers.

Each input can distribute two dual-link signals to dual-link monitors, but can also be used to distribute two single-link resolution signals to single-link monitors. The **OriginKVM 3125** improves operational productivity from the simplest to the most complex requirements and for applications such as hardware/software development, test labs, network server management and for multi-work-station operations.



2. System Features

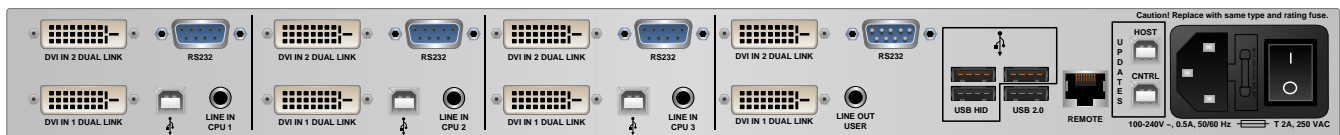
2.1. General System Features

The **OriginKVM 3125** is a 3 computer/1 user KVM switch that supports 2 dual-link DVI video channels, RS232, line level audio for speakers, USB HID devices and a USB 2.0 port. Switching is performed by hotkeys or by using the out-of-band control menu, either on the front panel or with a provided Remote Control Unit connected by a CAT5 Cable. Video 1 and USB HID (Human Interface Device) are always switched simultaneously, while Video 2, Audio, RS232, and USB 2.0 can be switched individually. This convenience allows the transfer of large amounts of data between a computer and storage device to take place while maintaining the user interface of a different computer.

The USB HID ports emulate a keyboard and mouse so that the connected computers do not need to re-acquire their capabilities each time a switch is made and they are immediately available upon switching. Many USB touch-screens and tablets are also supported on the USB HID port.

Each OriginKVM 3125 system includes the following features:

- Supports 2 video channels, either single-link or dual-link
- Supports USB HID devices such as keyboards, mice, tablets and touch-screens
- Dedicated USB 2.0 port
- Internal universal power supply
- Switching via front panel buttons, hotkeys or OBC (out-of-band control) menu
- Switching can also be done with the provided Remote Control Unit (RJ45)



Rear Panel of the OriginKVM 3125 Switch (KVM-003125).

2.2. Technical Specifications

Storage Temperature	-20 to 70°C (-4 to 158°F), 10 to 90% RH, non-condensing	
Power Supply Voltage	100 to 240 VAC, 50/60 Hz	
Power Consumption	10 Watts, typical	
Heat Dissipation	34 BTUs per hour	
Panel Connectors	Dual-Link Video Ports DVI (6) USB Keyboard/Mouse USB B (3) Audio Input 3.5mm (3) Serial Port RS-232 Male (1) RS-232 Female (3) Video for User Display DVI (2) Keyboard/Mouse & USB 2.0 Devices USB A (4) Audio Output 3.5mm (1) Remote Control RJ45F (1) <i>Refer to Section 3.2 for more details on the Rear Panel</i>	
Operating Temperature and Humidity	0 to 50 °C (32 to 122 °F); 5 to 95% RH, non-condensing	
Enclosure Dimensions	Approx. 17.640" x 14.170" x 1.720" high (448.06mm x 359.92mm x 43.69mm high) (Tolerance: ± .039"; .100cm)	
Weight	4 lbs (1.81 kg)	
Shipping Weight	16 lbs (7.26 kg)	
Copper Cables (supplied with unit)	(3) 3.5mm Male to Male Plug, 6FT Thinklogical Part Number: CBL000016-006FR (3) USB Type A to USB Type B Cable, 6 Feet Thinklogical Part Number: CBL000015-006FR (3) DB9M to DB9F Serial Cables (6) DVI Dual-Link Male to Male Cable, 2 Meters Thinklogical Part Number: CBL000023-002MR (1) RJ45 Male to Male CAT5 Cable, 2 Meters Thinklogical Part Number: CBL000001-002MR	
Compliance	Approvals for US, Canada, and European Union	
Warranty	12 months from date of shipment Extended warranties available	

2.2. Product Overview

2.2.1. Desktop Device

You may choose to place the chassis on a shelf or desktop (rubber feet included). The front panel should be visible and front panel buttons should be accessible. All connections are made to the rear of the chassis. The **OriginKVM 3125** chassis does not need to be opened or accessed. The sturdy metal case allows units to be stacked, as required.



NOTE: Be sure to leave adequate ventilation space on both sides of the units (2" minimum), especially if units are being stacked.

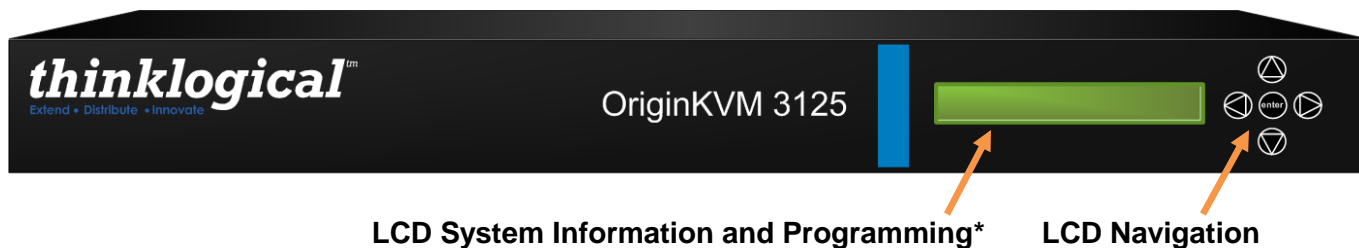
2.2.2. Convection Cooled

The **OriginKVM 3125** does not require special cooling or ventilation. No fans means that it will not add to the ambient noise in your equipment room and it is less prone to equipment failure. Be sure to not block the air vents on the sides of the unit. *Leave a minimum of 2" clearance on both sides.*

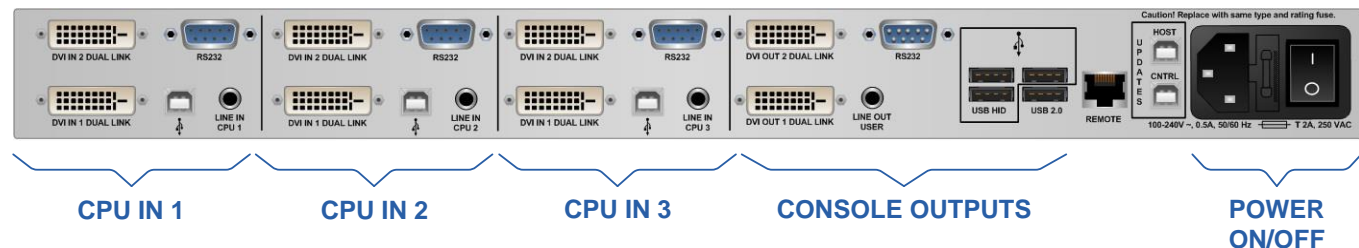
3. Connecting the OriginKVM 3125

All physical connections to the product use industry-standard connectors. All connections are found on the rear panel of the unit.

3.1 Front Panel View



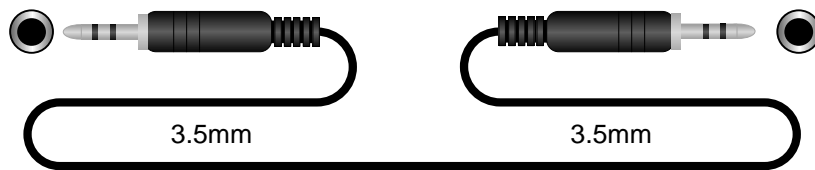
3.2 Rear Panel View



*See Appendix B for LCD Display menus.

3.3 Cables

3.3.1 3.5mm to 3.5mm Audio Cable, 6 Feet (CBL000006-006FR) – Qty 3



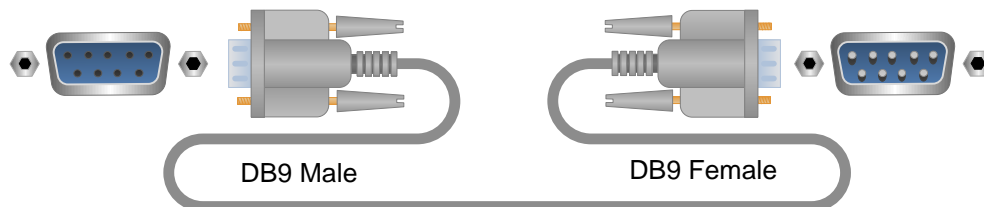
3.3.2 USB A-B Cable, 6 Feet (CBL000015-006FR) – Qty 3



3.3.3 DVI-D Dual-Link, 2 Meters (CBL000023-002MR) – Qty 6



3.3.4 DB9M to DB9F Serial, 2 Meters (CBL000017-006FR) – Qty 3

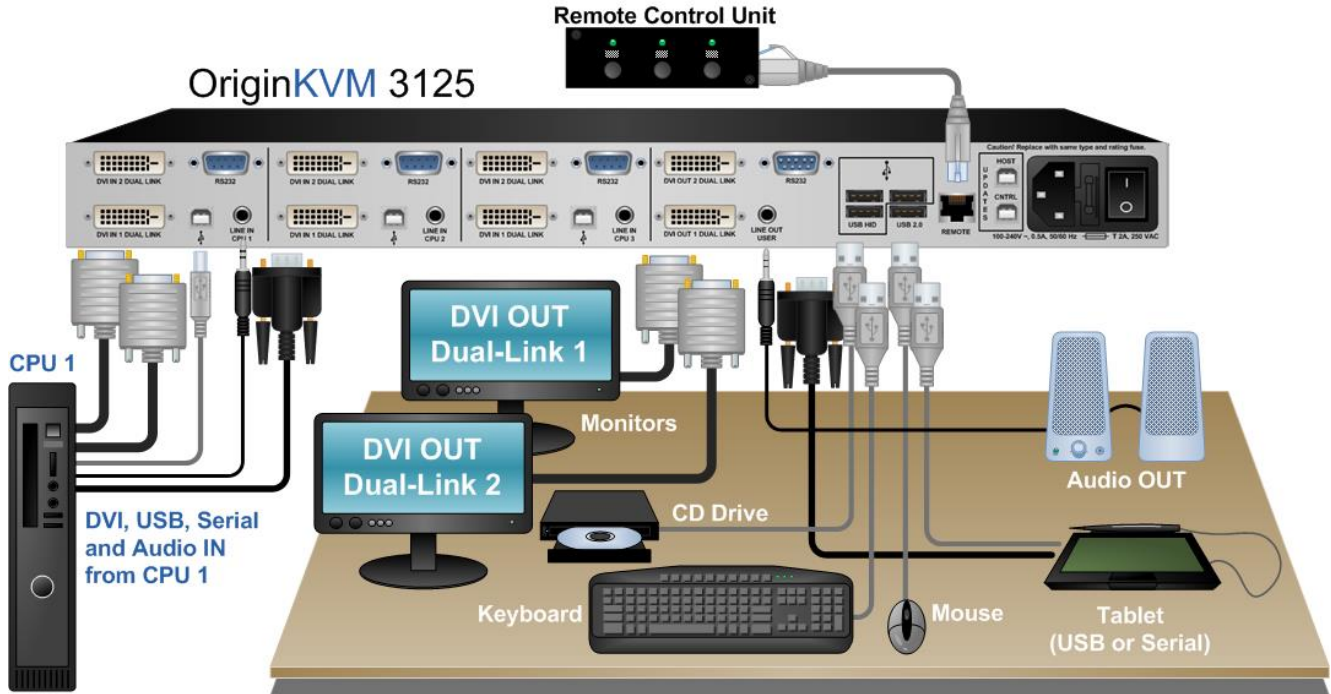


3.3.5 RJ45M to RJ45M CAT5, 2 Meters (CBL000001-002M) – Qty 1



4. Installation

(Also see **Appendix A: Quick Start Guide**, on page 14.)



Console Connections:

1. Connect an **AC Power Cord** to the OriginKVM 3125 and turn the unit ON
2. Plug **DVI Dual-Link Displays** 1-2 into the DVI ports labeled DVI OUT Dual-Link 1 and 2. See **Appendix B** (pg. 15) for Front Panel LCD Displays to read DDC Tables. *Apple Keyboard users, also see Appendix C on pg. 16.*
3. Connect up to 3 **USB HID** devices (such as keyboard, mouse, tablet, etc.) and one **USB 2.0** device to the four USB A ports. (USB 2.0 devices and devices that are not HID must be connected to the port marked USB 2.0.) Connect your speakers or other audio output device into the **3.5mm port** labeled AUDIO OUT. Connect a DB9 Serial cable from the chassis to any serial device. Connect an **RJ45 cable** from the chassis to the remote control unit.
4. **Ensure the CPUs are turned OFF.** Complete steps 5-8.

CPU 1 through 3 Port Connections:

5. Connect the included **Dual-Link DVI cables** (CBL000023-002MR) from the CPU 1 DVI Video Cards to the OriginKVM 3125's DVI IN Dual-Link IN 1 and 2.
6. Connect the included **USB A to USB B cable** (CBL000015-006FR) from the CPU 1 USB Keyboard/Mouse Port to the OriginKVM 3125's USB B IN from CPU 1 Port.
7. Connect the included **3.5mm to 3.5mm cable** (CBL000016-006FR) from the CPU 1 Audio Output to the OriginKVM 3125's 3.5mm Audio IN from CPU 1 Port.
8. Repeat Steps 1-3 for CPUs 2 and 3, and then turn the CPUs ON.

Ensure that all system functions are operating properly.

5. Regulatory and Safety Compliance

5.1 Safety Requirements

5.1.1 Symbols Found on the Product

Markings and labels on the product follow industry-standard conventions. Regulatory markings found on the products comply with standard requirements.

5.2 Regulatory Compliance

Thinklogical™ LLC products are designed and made in the USA. Our products have been tested by a nationally recognized testing laboratory and found to be compliant with the following standards (both domestic USA and many international locations).

5.2.1 North America

These products comply with the following standards:

Safety

- ANSI/UL60950-1: 1st Edition (2003)
- CAN/CSA C22.2 No. 60950-1-03

Electromagnetic Interference

- FCC CFR47, Part 15, Class A
- Industry Canada ICES-003 Issue 2, Revision 1

5.2.2 Australia & New Zealand

This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take corrective measures.

5.2.3 European Union

5.2.3.1 Declaration of Conformity

Manufacturers name and address:

Thinklogical™, a subsidiary of Logical Solutions, LLC.
100 Washington Street
Milford, CT 06460 USA
Telephone: 1-203-647-8700

Product name: **OriginKVM 3125**

This product complies with the requirements of the Low Voltage Directive 72/23/EEC and the EMC Directive 89/336/EEC.

5.2.3.2 Standards with Which Our Products Comply

Safety

- CENELEC EN 60950-1, 1st Edition (2001)

Electromagnetic Emissions

- EN55022: 1994 (IEC/CSPR22:1993)
- EN61000-3-2/A14:2000
- EN61000-3-3:1994

Electromagnetic Immunity

- EN55024:1998 Information Technology Equipment-Immunity Characteristics
- EN61000-4-2:1995 Electro-Static Discharge Test
- EN61000-4-3:1996 Radiated Immunity Field Test
- EN61000-4-4:1995 Electrical Fast Transient Test
- EN61000-4-5:1995 Power Supply Surge Test
- EN61000-4-6:1996 Conducted Immunity Test
- EN61000-4-8:1993 Magnetic Field Test
- EN61000-4-11:1994 Voltage Dips & Interrupts Test

5.2.4 Supplementary Information

The following statements may be appropriate for certain geographical regions and might not apply to your location.



NOTE: 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 may be required to correct the interference to radio communications.



NOTE: This Class A digital apparatus complies with Canadian ICES-003 and has been verified as being compliant within the Class A limits of the FCC Radio Frequency Device Rules (FCC Title 47, Part 15, Subpart B Class A), measured to CISPR 22: 1993 limits and methods of measurement of Radio Disturbance Characteristics of Information Technology Equipment.

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



WARNING: This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take corrective measures.



NOTE: Users may notice degraded audio performance in the presence of electromagnetic fields.

5.2.5 Product Serial Number

Thinklogical™ products have a unique serial number, imprinted on a small silver label that is placed on the bottom of the chassis. The serial number includes a date-code. The format for the date-code is two digits for the month; two digits for the day, two digits for the year and two or three digits for a unique unit number. This serial number is also found on the original shipping carton.

6. How to Contact Us

6.1 Customer Support

Thinklogical™ is an engineering company and we believe that the first line of support is the design engineer that developed each product. Therefore your questions will be handled promptly by our most knowledgeable engineers.

Thank you for choosing Thinklogical™ products for your application.

We appreciate your business and are dedicated to helping you successfully use our products.

thinklogical™ is always here to help you.

To contact us, please use the following telephone numbers and internet-based methods:

6.1.1 Website

Check out our website for current product offerings, support information and general information about all of the products we offer.

Our internet website offers product information on all current systems, including technical specification sheets and installation guides (for viewing online or for download), product diagrams showing physical connections and other information you might need: www.thinklogical.com



NOTE: Most online documents are stored as Adobe Acrobat “PDF” files. If you do not have the Adobe Acrobat reader needed to view PDF files, visit www.adobe.com for a download.

6.1.2 Email

Thinklogical™ is staffed Monday through Friday from 8:30am to 5:00pm, Eastern Time Zone. We will make every effort to respond to your email inquiries promptly. Please use one of the following email addresses for your particular needs:

info@thinklogical.com – Information about Thinklogical™ and our products.

sales@thinklogical.com – Sales Department - orders, questions or issues.

support@thinklogical.com – Product support, technical issues or questions, product repairs and request for Return Authorization.

6.1.3 Telephone

Telephone Sales: Please contact our expert, technically oriented sales staff via telephone in Milford, CT at **1-203-647-8700** or if in the continental US, you may use our **toll-free number 1-800-291-3211**. We are here Monday through Friday from 8:30am to 5:00pm, Eastern Time Zone. Ask for a direct dial phone number when you call.

Telephone Product Support: Contact Product Support via telephone in Milford, CT at **1-203-647-8700**. The support lines are manned Monday through Friday, 8:30am to 5pm, Eastern Time Zone.

International Sales: Please contact our US sales staff in Milford, CT at **1-203-647-8700**. We are here Monday through Friday, 8:30am to 5:00pm, Eastern Time Zone (same as New York City). If leaving a voice message, please let us know the best time to call you back so we may reach you at your convenience.

Our switchboard attendant will direct your call during regular business hours. We have an automated attendant answering our main telephone switchboard after regular business hours and on holidays, so you can leave a voice message at any time. Our Sales Representatives have direct numbers to better serve you.

6.1.4 Fax

Our company facsimile number is **1-203-783-9949**. Please indicate the nature of the fax on your cover sheet and provide return contact information.

6.2 Product Support

Thinklogical's support personnel are available Monday through Friday from 8:30am to 5:00pm, Eastern Time Zone. If your application might require assistance at some time outside of our normal business hours, please contact us beforehand and we will do our best to make arrangements to help you with your Thinklogical products.

6.2.1 Warranty

Thinklogical™ LLC ("Thinklogical") warrants this product against defects in materials and workmanship for a period of one (1) year from the date of delivery (ordinary wear and tear excluded). This limited warranty does not cover defects resulting from (i) use of the product other than as described in the applicable documentation for the product; (ii) modifications to or repairs of the product that are made by any party other than Thinklogical or a party acting on Thinklogical's behalf, or (iii) combination of the product with third party products that is not consented to by Thinklogical. Occurrences of events

described in (i) – (iii) shall void the foregoing warranty. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Except for the express warranty set forth above, to the fullest extent permitted under applicable law, Thinklogical™ LLC and its suppliers disclaim any and all other warranties, express and implied, including without limitation the implied warranties of merchantability, fitness for a particular purpose, title and non-infringement.

If the defective product is returned to the authorized dealer within one (1) year of the delivery date, repair or replacement of the product will be made. Repairs may be made with refurbished parts. If repair or replacement is not possible, Thinklogical may keep the defective product and refund the amount that you paid for the defective product. These are Thinklogical's sole obligations, and your exclusive remedies, for a breach of the limited warranty set forth above.

To return a defective product, contact the Thinklogical authorized dealer from whom you purchased the product. Do not return a product directly to Thinklogical without prior authorization from your dealer.

If you have received prior authorization from your dealer and are returning a product directly to Thinklogical:

1. Contact a sales representative or call Customer Support at 1-800-291-3211 or 1-203-647-8700.
2. Describe the defect and Customer Support will issue a Return Merchandise Authorization Number (RMA#).
3. Pack the product in its original packing, if possible, and write the RMA number on the box.
4. Return the product to:
Thinklogical, LLC
Attn: RMA# [Insert the RMA number issued to you by Thinklogical here.]
100 Washington Street
Milford, CT 06460 USA

6.2.2 Our Address

If you have any issue with the product, have product questions or need technical assistance with your Thinklogical™ system, please call us at **1-800-291-3211 (USA only)** or **1-203-647-8700** and let us help. If you'd like to write us, we are located at:

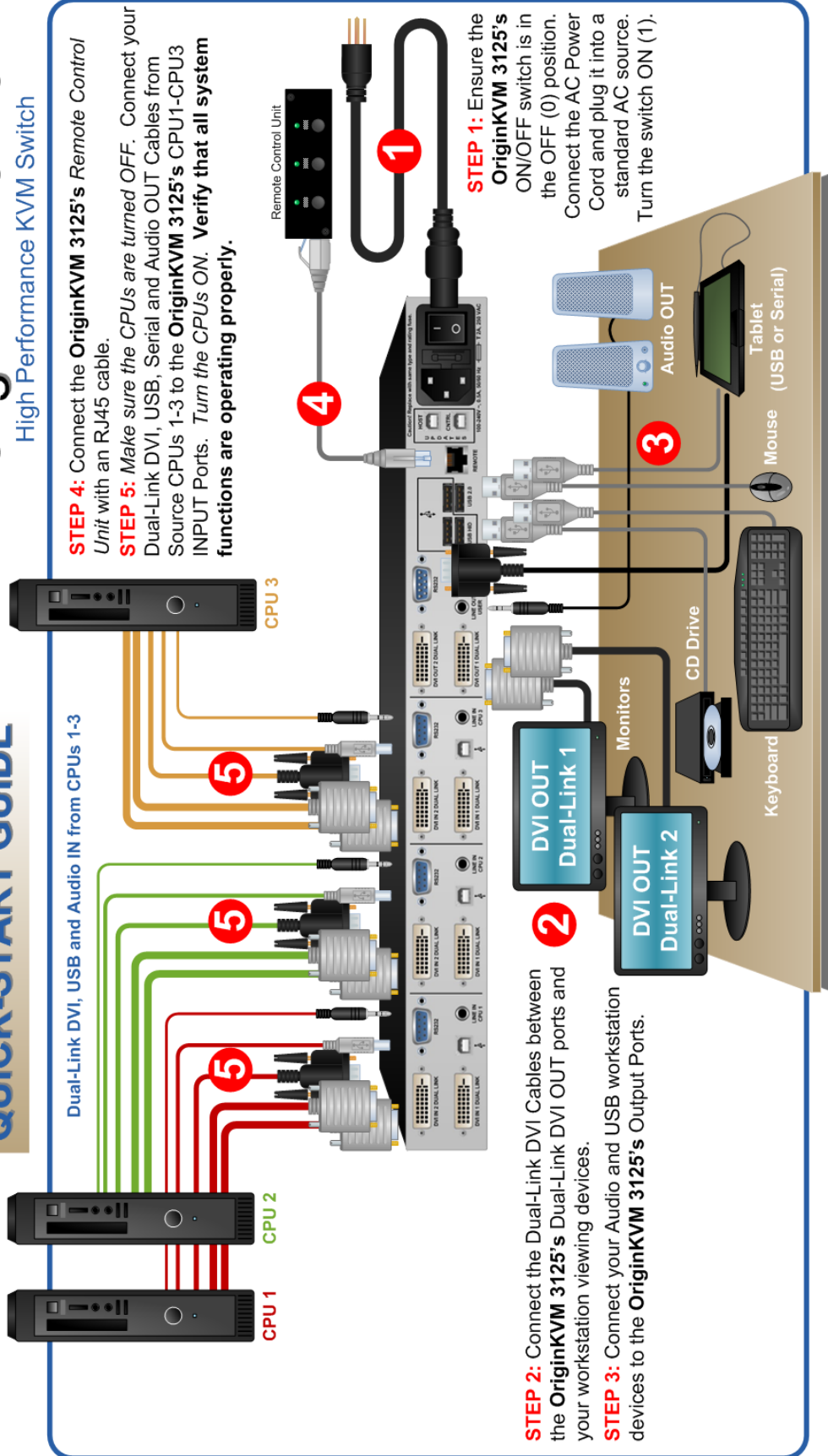
**Thinklogical™ LLC
100 Washington Street
Milford, Connecticut, USA 06460**

Thinklogical™ LLC products carry a one year warranty, with longer terms available at time of purchase on most products. Please refer to your product invoice for your products Warranty Terms & Conditions.

Appendix A: OriginKVM 3125 Quick Start Guide

OriginKVM 3125 High Performance KVM Switch

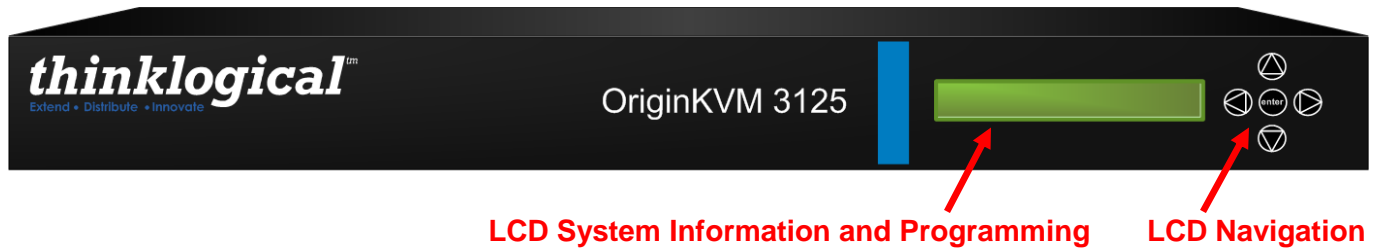
QUICK-START GUIDE





Appendix B: OriginKVM 3125 Front Panel LCD Displays



Front Panel LCD Display	Modifiable	Description
Logical Solutions 3125 Mux Unit V11.01		Displays current rev. (Scroll Up or Down to access top level *Menus.)
*System		Scroll Right or Left within the System menu
Cntrl. Rev.= 11.01	NO	Revision of Origin Mux Control Code
Host Rev.= 10.25	NO	Host for user revision
Device 1 Rev.= 10.18	NO	Revision of device 1 connected to CPU
Device 2 Rev.= UNKN	NO	Revision of device 2 connected to CPU
Device 3 Rev.= UNKN	NO	Revision of device 3 connected to CPU
*USB Country Code		Scroll Right or Left within the USB Country Code menu
USB Country Cntry.= USA	YES	The country code of the USB KB that the device reports itself as being. This is the last USB KB country applied to the remote host. Most hardware is not localized and thus this value will be zero (0), which is displayed As "Not Supported."
USB Device Enum.= 0	YES	A bit pattern that indicates which ports have been enumerated at the device side. The bits are laid out as Bit0=KB, Bit1=MS, Bit2=TBLT, Bit3=DWNLD, Bit4=Daughter Card_KB, Bit5=Daughter_MS, Bit6=Daughter_TBLT.
*DDC		Scroll Right or Left within the DDC menu
Enable Hot Plug Toggle Yes/No.= No	YES	Allows user to toggle Hot Plugs when loading a DDC table.
Load Default DDC Yes/No.= No	YES	Loads a default DDC table which allows resolutions up to 1024x768. Puts the TX into static mode.
Acquire DDC From User Yes/No.= No	YES	Gets the DDC table of the connected monitor, stores the table and puts the TX in static mode.
*Out Of Band Cntrl		Scroll Right or Left within the Out Of Band Control menu
User Resolution 1024x768	YES	Out of Band Resolution.
User Font Size Normal	YES	Font size setting for Out Of Band text
User Color GREEN	YES	Color of Out Of Band Control text.
User Set HOT Key Scroll Lock	YES	Select for Apple Keyboard user. (See Appendix C)
*Connections		Scroll Right or Left within the Connections menu
User 1 Source 1	YES	Displays the number of the CPU selected by the user.

Appendix C: Out of Band Control for Apple Keyboard Users



If using an Apple Keyboard, once the firmware has been installed into the OriginKVM 3125, use the **UP arrow**  on the Navigation Pad to reach ***Out of Band CTRL** from the main menu. Then use the **RIGHT arrow**  to reach **User Set HOT Key Scroll Lock**. If not using an Apple Keyboard, leave this setting as it is.



To make a change from the **Alt. HOT Key** menu, press **enter**. Use the **UP**  or **DOWN** arrow  to access the available hot key options:

HOT Key (F13, F14, F15, LEFT CTRL, RIGHT CTRL or R or L CTRL, Scroll Lock).

Press **enter** to implement the change. Each keyboard is handled separately. The user may need to repeat the procedure for User 2.

