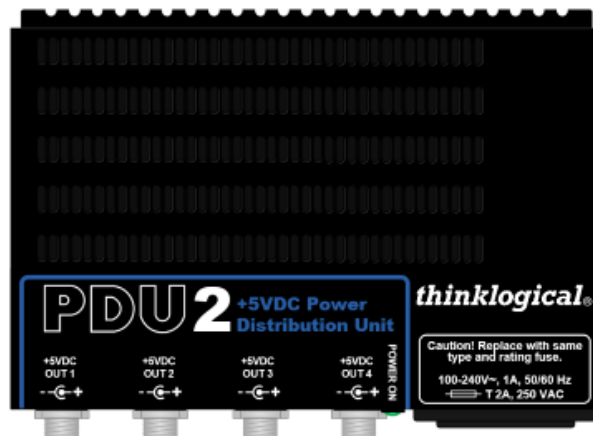


DC POWER DISTRIBUTION



PDU2 DC Power Distribution Unit PRODUCT MANUAL

Thinklogical, LLC®
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www.thinklogical.com

Value Your Content

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Subject: PDU2 +5VDC Power Distribution Unit Product Manual

Release Date: September, 2014



PDU 2



thinklogical®



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Thinklogical Innovation Leads the Way.
Performance • Security • Continuous Operation • Ease of Integration

www.thinklogical.com

Preface

About Thinklogical



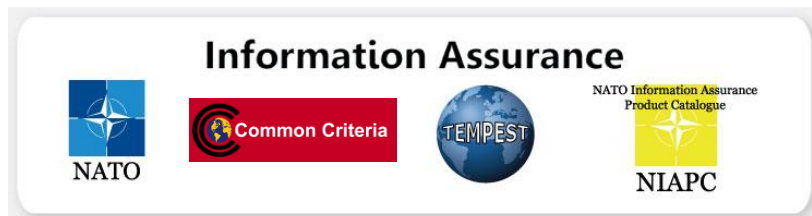
Thinklogical, LLC®
100 Washington St.
Milford, CT 06460

We, the Thinklogical team, are committed to understanding and exceeding our customers' requirements, the first time and every time.

Thinklogical is the leading manufacturer and provider of fiber optic KVM, video, audio, and peripheral extension and switching solutions used in video-rich, big-data computing environments.

Thinklogical offers the only fiber optic KVM matrix switches and routers in the world that are accredited to The Common Criteria, EAL4 and TEMPEST.

Governments, entertainment, scientific and industrial customers worldwide rely on Thinklogical's products and solutions for security, high performance, continuous operation and ease of integration. Thinklogical products are designed and manufactured in the USA and are certified to the ISO 9001-2008 standard.



Thinklogical is headquartered in Milford, Connecticut and is privately held by Riverside Partners, LLC, Boston, MA (<http://www.riversidepartners.com>). For more information about Thinklogical products and services, please visit www.thinklogical.com.

Follow Thinklogical on LinkedIn at <http://www.linkedin.com/company/thinklogical> and on Facebook at <http://www.facebook.com/ThinklogicalUSA>



Note and Warning Symbols

Throughout this document you will notice certain symbols that bring your attention to important information. These are **Notes** and **Warnings**. Examples are shown below.



Note: Important Notes appear in blue text preceded by a yellow exclamation point symbol, as shown here.

A note is meant to call the reader's attention to helpful information at a point in the text that is relevant to the subject being discussed.



Warning! All Warnings appear in red text, followed by blue text, and preceded by a red stop sign, as shown here.

A warning is meant to call the reader's attention to critical information at a point in the text that is relevant to the subject being discussed.

BEFORE STARTING ANY PROCEDURE, IT IS RECOMMENDED THAT YOU READ THE INSTRUCTIONS THOROUGHLY!

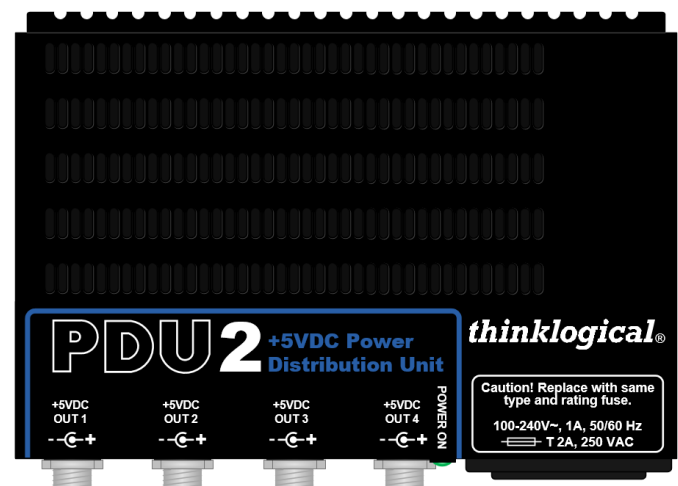
The PDU2 +5VDC Power Distribution Unit

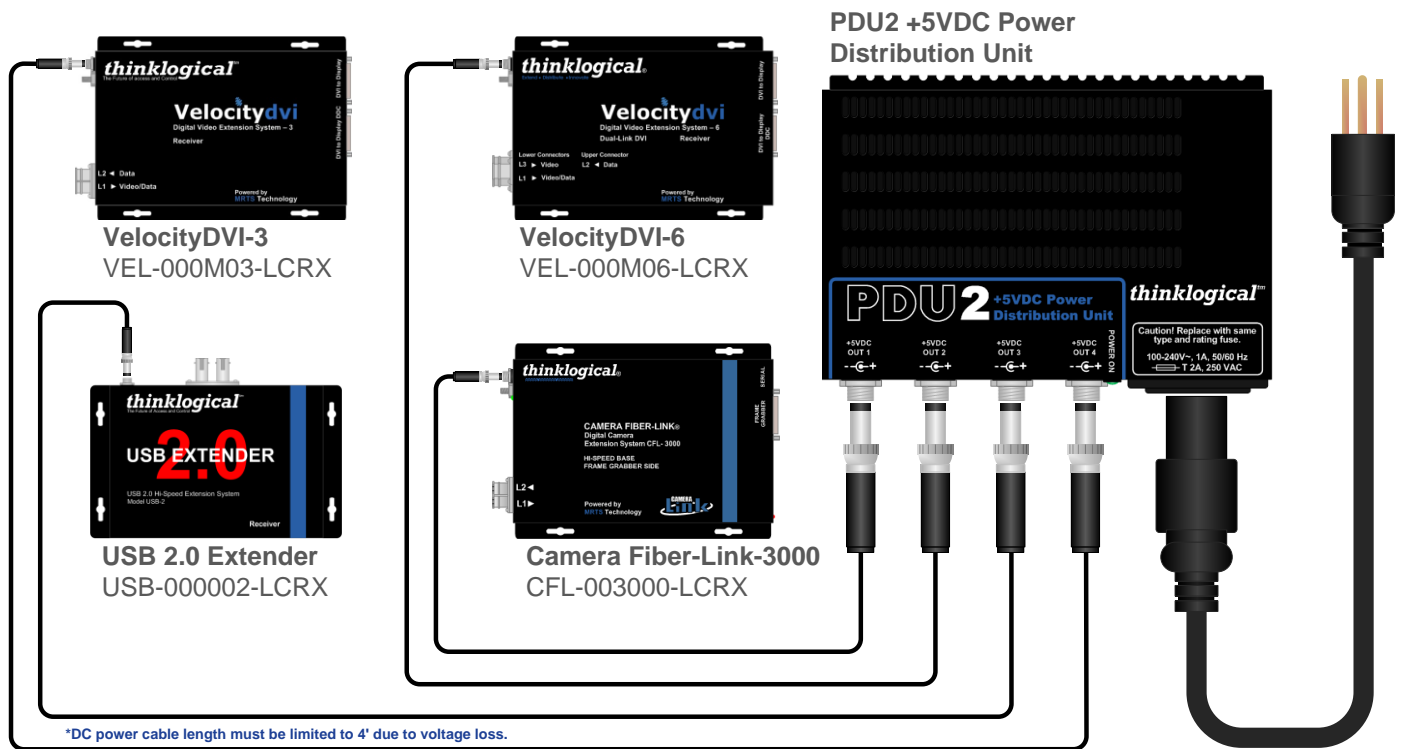
Thinklogical's® PDU2 Power Distribution Unit is a **+5VDC Desktop Power Supply** that provides power to up to four Thinklogical devices per unit.

The PDU2 is designed to work with Thinklogical's **VelocityDVI System-3, VelocityDVI System-6, Camera Fiber Links, StudioPRO Extenders** and **USB 2.0 Extenders**.

- Includes four DC Power Cables (CBLA-000037)*
- Small form factor (1.625"H x 4.25"D x 5.625"W)
- Extremely light weight: 0.5 lb (0.227 kg)
- Uses standard AC power input (100-240 VAC, 1A, 50/60 Hz)
- Output Voltage/Current: +5VDC, 11 amps total

*DC power cable length must be limited to 4' due to voltage loss.





The PDU2 provides +5VDC to the following products (both transmitters and receivers):

- VelocityDVI System-3 family, including -3AV+, -AN+, -AH, -OH, -NH, -H
- VelocityDVI System-6 family, including -AV+, -AN+
- Camera Fiber-Link 3000
- Camera Fiber-Link 4000
- Camera Fiber-Link 5000
- Camera Fiber-Link 6000
- USB 2.0 Extender
- StudioPRO Extender



Note: The power disconnect device is the AC line cord.

PDU2 Technical Specifications

PDU2 DC Power Distribution Unit	
Storage Temperature	-20 to 70°C (-4 to 158°F), 10 to 90% RH, non-condensing
Input Voltage	1 Amp total universal input 100-240 VAC, 50/60 Hz
Output Voltage	+5.0 VDC to 4 output ports
Panel Connectors	(1) AC Power Cord (4) +5VDC Power Outlets (1) Power Status LED
Operating Temperature & Humidity	0 to 50 °C (32 to 122 °F); 5 to 95% RH, non-condensing
Enclosure Dimensions	4.25" D x 5.625" W x 1.75" H (10.795 cm x 14.29 cm x 4.45 cm)
Weight Shipping Weight	0.5 lb (0.227 kg) 5.0 lb (2.268 kg)
Compliance	Approvals for US, Canada and European Union
Warranty	12 months from date of shipment. Extensions available.

PDU Models available from Thinklogical:

PDU-000001	PDU 4/4, AC Power Distribution Unit, Domestic, Serial Interface
PDU-000003	PDU 4/4, AC Power Distribution Unit, International, Serial Interface (PDU-4/4 manual is on our website)
PDU-000002	PDU2, 4x +5VDC Power Distribution Unit
PDU-000012	PDU-12, 12x +5VDC Power Distribution Unit (PDU-12 manual is on our website)

Regulatory & Safety Requirements

Symbols Found on Our Products

Markings and labels on our products follow industry-standard conventions. Regulatory markings found on our products comply with domestic and many international requirements.

Regulatory Compliance

Thinklogical® products are designed and made in the U.S.A. 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).

North America

These products comply with the following standards:

Safety

ANSI/UL60950-1: 1st Edition (2003)

CAN/CSA C22.2 No. 60950-1-03

LASER Safety

CDRH 21CFR 1040.10

Class 1 LASER Product

Electromagnetic Interference

FCC CFR47, Part 15, Class A

Industry Canada ICES-003 Issue 2, Revision 1

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 adequate measures.

European Union

Declaration of Conformity

Manufacturer's Name & Address:

Thinklogical®

100 Washington Street

Milford, Connecticut 06460 USA

Telephone: 1-203-647-8700

Product Name

PDU2; part number PDU-000002

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

Standards with Which Our Products Comply

Safety

CENELEC EN 60950-1, (2006)

LASER Safety

IEC60825:2001 Parts 1 and 2

Class 1 LASER Product

Electromagnetic Emissions

EN55022: 1994 (IEC/CSP122: 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

Supplementary Information

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

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 adequate corrective measures.



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 in which case the user may be required to take adequate corrective measures at their own expense.



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 1), measured to CISPR 22: 1993 limits and methods of measurement of Radio Disturbance Characteristics of Information Technology Equipment.



Note: The user may notice degraded audio performance in the presence of electromagnetic fields.



Note: If using a keyboard that is noise susceptible, a ferrite ring on the keyboard cable may be needed to comply with Immunity Requirements

Product Serial Number

Thinklogical products have a unique serial number, which includes a date-code, printed on an adhesive label that is affixed to the unit. The format for the date-code is 2 digits for the month, dash, 2 digits for the year, plus four digits for a unique unit number. For example, **05-140125** indicates the unit was built in the **5th** month of **2014**, and is unit number **125**. Connection to the Product

Connection to the Product

Connections and installation hardware for our products use industry-standard devices and methods. All wiring connections to the customer equipment are designed to minimize proprietary or customized connectors and cabling. Power connections are made with regionally appropriate power cords and approved methods.

Thinklogical Support

Customer Support

Thinklogical is an engineering company and you will receive any information you require directly from our most knowledgeable engineers. We believe that the first lines of support are design engineers that developed each particular product. Therefore, your questions will be handled promptly by our in-house engineers who are most familiar with your products.

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:

Website

Check out our website for current product offerings, support information and general information about all of the products we offer, including product information on all current systems, technical specification sheets and installation guides (for viewing online or for download), product diagrams showing physical connections and other helpful information.

Internet: 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.

Email

Thinklogical is staffed **Monday through Friday from 8:30am to 5:00pm**, Eastern Time Zone. We will do our best to respond to your email inquiries promptly. Please use one of the following email addresses:

info@thinklogical.com – Information on 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.

Telephone

Product & Customer Support:	1-203-647-8700
US Commercial & Canada Sales:	1-203-647-8769
US Federal Government Sales:	1-203-647-8716
Toll Free in the Continental US:	1-800-291-3211
International Sales (Europe, Middle East, Africa):	1-203-647-8704
International Sales (Asia Pacific, Central & Latin America):	1-203-647-8734
Fax:	1-203-783-9949

Please contact our expert sales staff in Milford, CT. We are here Monday through Friday from 8:30am to 5:00pm, Eastern Time Zone. We'll provide a representative's direct dial phone number when you call.

If leaving a voice message, please provide a preferred time to call 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 holidays. You can leave voice messages for individuals at any time.

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.

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.

Warranty

Thinklogical® warrants this product against defects in materials and workmanship for a period of one year from the date of delivery. Thinklogical and its suppliers disclaim any and all other warranties.



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

Defect remedy shall be, repair or replacement of the product, provided that the defective product is returned to the authorized dealer within a year from the date of delivery.

If you wish to return your device, contact the Thinklogical authorized dealer where you purchased the device, or if you purchased directly, call Thinklogical at 1-800-291-3211 (USA).

Return Authorization

If you have any issue with any Thinklogical product, have product questions or need technical assistance with your Thinklogical system, please contact **Customer Support** at **1-800-291-3211 (USA only)** or **1-203-647-8700** and let us help.

If you must return a product to Thinklogical® directly, Customer Support will ask you to describe the problem and will issue you a **Return Merchandise Authorization** number (RMA#).

Pack the device in its original box, if possible, and return it with the RMA# on the box.



Note: Do not return a product to Thinklogical® without a **Return Material Authorization Number**.

Return address for products with Return Material Authorization:

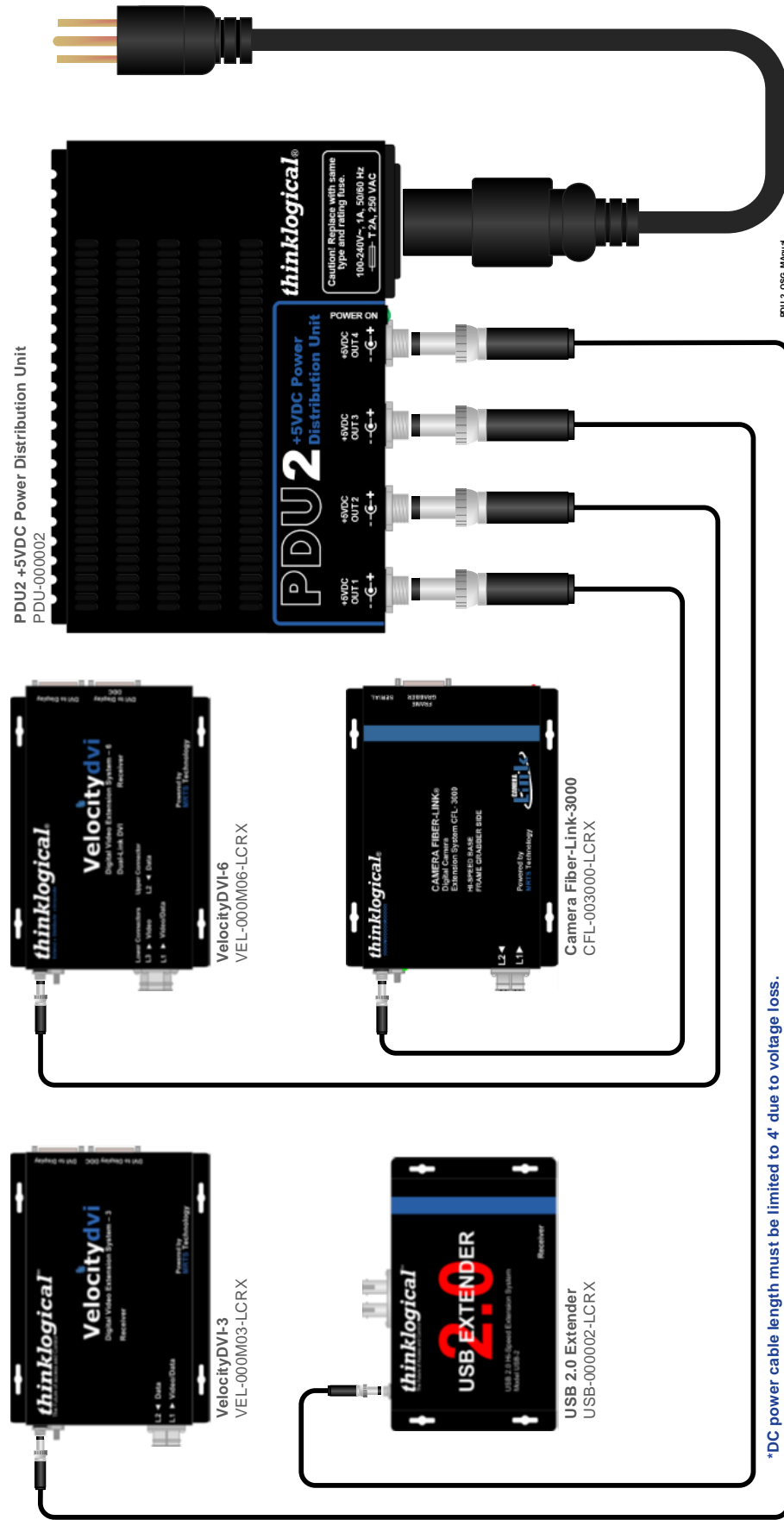
Thinklogical, LLC®
Attn: RMA#
100 Washington Street
Milford, CT 06460 USA
PH: 800-291-3211 (USA only)



Appendix A: PDU2 User's Guide

PDU2 +5VDC Power Distribution Unit USER'S GUIDE

- Thinklogical's® PDU2 Power Distribution Unit is a +5VDC Desk-top Power Supply that provides power to up to four Thinklogical devices per unit.**
- The PDU2 is designed to work with Thinklogical's VelocityDVI System-3, System-6, Camera Fiber Link, USB 2.0 and StudioPRO Extenders
- Includes four DC Power Cables (CBLA-000037)*
 - Small form factor (1.625"H x 4.25"D x 5.625"W)
 - Extremely light weight: 0.5 lb (0.4 kg)
 - Uses standard AC power input (100-240 VAC, 1A, 50/60 Hz)
 - Output Voltage/Current: +5VDC, 11 amps total



*DC power cable length must be limited to 4' due to voltage loss.

PDU_2_OSG_Manual