



Protecting Your Digital Assets™



USB DATADIODE™

USER MANUAL

Revised December 16, 2010



Features

- Allows a USB data storage device to be connected to both classified and non-classified computers, while allowing no classified data to be written back to either the USB device or non-classified computer
- Prevents human error – the user is not required to plug a data storage device into the classified computer
- Easy to set up and use
- Host select switch toggles between read/write and read-only connections. Only one connection can ever be active at a time.
- Remount button allows changing/resetting attached device without detaching USB DataDiode from computer

Table of Contents

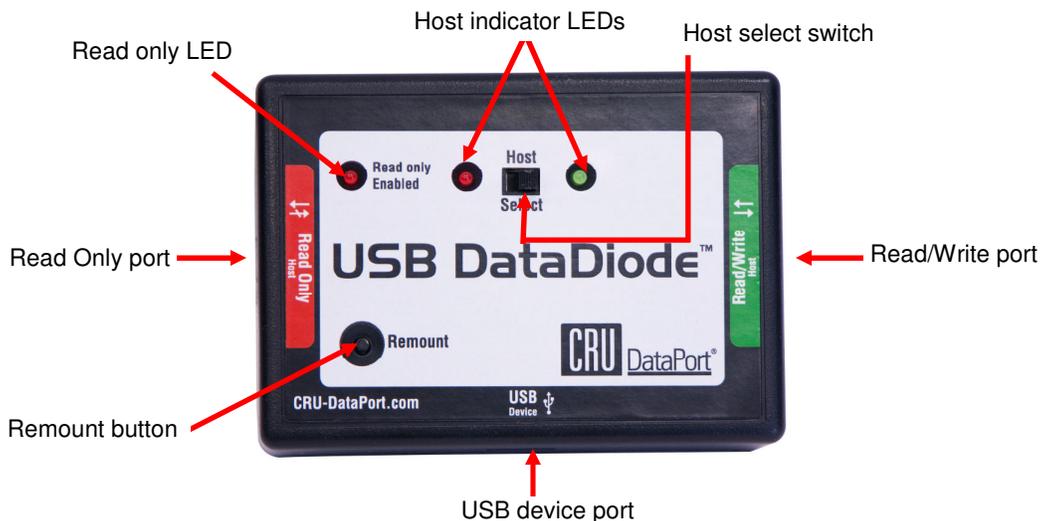
1. Pre-Usage Steps	3
1.1 Box Contents	3
1.2 Identifying Parts	3
1.3 USB DataDiode Host Connections	3
2. Usage of USB DataDiode	3
2.1 Transferring Data	3
2.2 Remount Button	3
3. Usage with Mac and Windows Operating Systems	4
4. Frequently Asked Questions	4
5. Technical Specifications	5

1. Pre-Usage Steps

1.1 Box Contents Check the accessories with your USB DataDiode unit. Please contact CRU-Dataport if any parts are missing or damaged. The box should contain the following items:

USB DataDiode unit	1
USB cable	2
User's manual and warranty information	1

1.2 Identifying Parts Take a moment to familiarize yourself with the parts of the USB DataDiode. This will help you to better understand the remaining instructions.



1.3 USB DataDiode Host Connections

1. USB DataDiode is equipped with a USB Type A receptacle for attaching your USB media.



2. USB DataDiode has two USB Type B ports for attaching to your host data source and secure host destination.

- **Read/Write port** - Your standard host will have full read and write access to the connected USB device. In this mode, no access is granted to or from secure host. The “Read Only” circuitry is powered off, and no data path exists between the host ports.



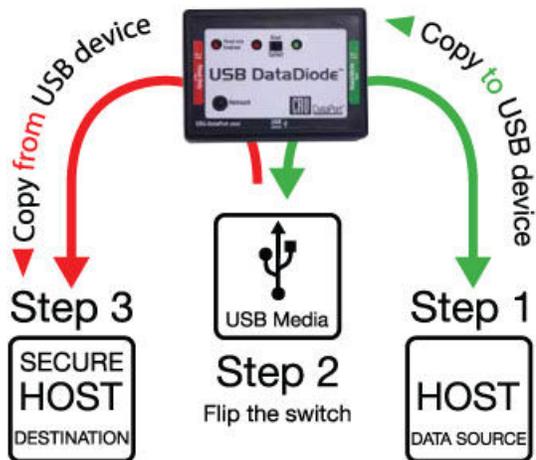
- **Read-Only port** - The connection to the standard host is halted, and a connection is established to the secure host. The secure host can only copy files from the USB device, but cannot write files to the USB device.



2. Usage of USB DataDiode

2.1 Transferring Data

- Properly connect the unit.
- Ensure that the Host Select switch is switched to Read/Write (the green LED will light).
- Copy data from the host data source to the USB device.
- Flip the switch (both red LEDs will light).
- Copy data from the USB device to the secure host destination.



2.2 Remount button

The USB DataDiode is bus-powered by the USB port from the computer so there is no need for an on/off switch. However, there is a “Remount” button for a few instances where USB devices might not be recognized by the computer. If that is ever the case, unplug the USB device from USB DataDiode, and then plug it back in and press the “Remount” button.

3. Usage with Mac and Windows Operating Systems

3.1 Usage with Macintosh Computers

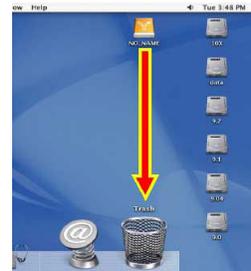
3.1.1 Compatibility

The USB DataDiode is compatible with Mac OS X 10.5 or newer. No drivers are needed.

3.1.2 Using Volumes

The hard drive attached to the USB DataDiode will appear as an icon representing the drive's volume on the desktop. You can begin using the volume right away. If the drive is unformatted, a message will appear on the desktop saying that the disk is unreadable.

Eject the volume before powering down the unit by dragging the volume's icon to the trash bin, or by selecting the volume then pressing Command-E. Shutting down the unit without first ejecting the volume can result in data loss.



3.2 Usage with Windows Operating System

3.2.1 Compatibility

The USB DataDiode is plug-and-play compatible with Windows XP, Vista, and Windows 7. No drivers are needed on these operating systems.

3.2.2 Using Volumes

When the USB DataDiode and drive are properly connected and turned on, a window may open to allow you access to the volume. If no window appears, you can find the volume by double-clicking the "My Computer" icon.

Eject the volume before powering down the unit by single-clicking the green arrow icon on the task bar, then selecting "Safely remove...." Windows will indicate when it is safe to disconnect the USB DataDiode. Shutting down the unit without first ejecting the volume can result in data loss.



4. Frequently Asked Questions

Q: Where's the on/off switch on the USB DataDiode?

A: USB DataDiode is bus-powered by the computer's USB port. Power is available immediately when you plug in USB DataDiode.

Q: What is the "Remount" button on the USB DataDiode for?

A: The "Remount" button is there for instances where the USB DataDiode may need a power cycle in order to mount the drive/device. If you get an error that says "USB device not recognized" then simply hit the "Remount" button and the volume will mount to the computer.

Q: What is write protection?

A: Also called "Read only," write protection ensures that no information is written from the connected computer to the attached USB drive. This is useful to prevent confidential information from leaving a secure network.

For more FAQs and additional information, please visit www.cru-dataport.com.

5. Technical Specifications

Part Number	31290-0192-0000
Data Speeds	<ul style="list-style-type: none"> • Read/Write: Full speed of connected USB Device. • Read Only: Up to 9 MB/s. (Note: Drive speeds will vary depending on the drive model/type, and operating system).
LEDs:	3: two host indicator LEDs, one Read only LED
Operating System Requirements:	<ul style="list-style-type: none"> • Windows XP, Vista, Windows 7 • Mac OS X 10.5
Compatibility	USB 2.0, USB 1.1 backwards compatible.
Switch:	Toggles between read/write and read-only connections.
Remount Button:	Allows changing/resetting attached device without detaching USB DataDiode from computer.
Shipping Weight:	0.4 lbs (6.4 Oz)
Dimensions:	78mm W x 110mm L x 53mm H (including rubber feet)
Warranty:	2-year limited warranty. See warranty statement for details and limitations. CRU offers phone support (800-260-9800) or email support available at support@CRU-DataPort.com .

Limited Product Warranty

CRU-DataPort (CRU) warrants USB DataDiode to be free of significant defects in material and workmanship for a period of two years from the original date of purchase. CRU's warranty is nontransferable and is limited to the original purchaser.

Limitation of Liability

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If you have any questions or problems, please visit <http://www.cru-dataport.com> or e-mail support@cru-dataport.com for technical support. We appreciate being able to serve you!