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Computer
Solutions**

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RAPID IMAGE™ X2 IT DRIVE DUPLICATOR High Speed Data Duplication and Sanitization Station Supporting SATA-III Transfer Rates

The Rapid Image™ Hard Drive Duplicators are Industrial Hard Disk Duplicators designed to copy 1 “Master” hard drive to up to 19 “Target” hard drives at Fast SATA-III Speeds. It can also be configured to copy multiple Master drives simultaneously. It supports the duplication of up to 10 Master drives simultaneously. The Unit can perform several operations simultaneously including, copying and sanitizing drives at the same time with minimal speed degradation.

FEATURES:

- 1 High Speed
- 2 Hard Drive Support
- 3 Quick Drive Detection
- 4 Versatile “Source” Drive Ports
- 5 Cable Free Drive Caddies
- 6 Multiple Modes of Operation
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- 18 Logs and Auditing
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- 20 Easy Maintenance
- 21 HPA/DCO Support
- 22 Friendly User Interface
- 23 Lock Setting



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RAPID IMAGE™ X2 IT DRIVE DUPLICATOR

The Next Generation of Versatile, Powerful, High Speed ICS Industrial Data Duplication and Sanitization Stations

The Rapid Image™ X2 units are the Next Generation of the Rapid Image Product Line of High Speed, Versatile, Large Volume, Industrial Drive Duplication Systems. Designed with twice the processing power of its original version. The units provide Native interface support for SAS and SATA drives, using a Cable-Free Drive Insertion solution. The systems also support today's common drive interfaces including IDE. The Rapid Image™ X2 units support SHA-1 and SHA-2 Hardware Accelerated Drive Hashing during mirror copy operations as well as the standard MD-5 Hashing method. With built-in Hard Drive Encryption support, target drive's data can be Secured utilizing the NIST approved AES-256 Encryption standard. Additionally, units feature a native 1 Gigabit Ethernet connection to upload or download drive images to or from a Network Storage Area. The unit's internal PCIe Bus allows users to easily add a wide array of PCIe cards to expand the unit's support for additional drive interfaces such as SCSI, Fibre Channel, FireWire, 10 Gigabit Ethernet connectivity and more. Source drive "Loads" can be stored as image files using different formats including the MS "Virtual Hard Disk Image" (VHD) file format. The units can be monitored and controlled remotely, and Database information can be collected from a remote terminal and stored in an SQL type database format.

KEY FEATURES:

1 High Speed

High-end Processing Power: The Rapid Image™ X2 units come standard with a powerful i7 CPU and are designed to support today's High Performance drives as well as future hard drive speed improvements, using 6Gb/s SAS Controller technology. The units support advanced Duplication Technology that can perform multiple operations simultaneously, copy and wipe drives exceeding 7GB/min with a potential of exceeding 18GB/min.

2 Hard Drive Support

Offers native support for SAS, SATA and USB 2.0 as well as 3.0 drives. Optional adapters are available to support IDE Drives*, Micro SATA*, e-SATA Drives*, 2.5", 1.8" IDE Notebook Drives*, ZIF drives*, and Flash media*. The unit offers an internal PCIe expansion bus which can be used to expand the unit's capability to support additional drive interfaces such as SCSI and FireWire. *Available for purchase/Optional Adapters Required

3 Quick Drive Detection

Can detect 20 drives in less than one minute.

4 Versatile "Source" Drive Ports

Flexible design allows any port to be configured as the "Source" port.

5 Cable Free Drive Caddies

The unit is available with either 2.5" or 3.5" Cable-Free Drive Caddies. Both versions support Cable-Free insertion of eight (8) 2.5"/1.8" or 3.5" Form Factor SATA/SAS drives, accordingly.

6 Multiple Modes of Operation

IQ Copy: Used to copy only allocated data of Source Drives configured with Windows Based O/S and File Systems, greatly reducing the time required to copy data. **IQ Copy** supports partition scaling allowing duplication of smaller capacity drives to larger capacity drives. **Percent of Copy:** Used to copy a Source drive's allocated data and unallocated data, creating a "mirror" image of the Source drive. **O/S and File System independent.** **MultimASSter:** Supports storing one or multiple Source drive images on a single "Target" drive using the Segmented File Format. The format copies both allocated and unallocated data. **VHD Capture:** Supports storing one or multiple Source drive images on a single "Target" drive using the VHD File Format. The format copies only allocated data. **WipeOut:** Sanitize drives utilizing the DoD Standard, Secure Erase or User Defined Methods. The unit has the ability to copy and wipe Hidden HPA or DCO areas which may exist on hard drives. **Optional* Linux IQCopy:** Provides IQCopy Support for the Linux Extended 2 (EXT2), Extended 3 (EXT3) and Extended 4 (EXT4) File Systems. * Available as an add-on purchase.

7 Multiple Hash Verifications

The Rapid Image™ X2 supports SHA-1 and SHA-2 Hardware Accelerated Hashing and Software based MD-5 Hashing.

8 Multi-Session Capability

Copy multiple Source drives simultaneously or run multiple operations simultaneously. Multi-Session supports the high-speed duplication of up to 4 Source drives simultaneously. Copy and Sanitize drives at the same time. Units equipped with the 8 Port Add-on Module can support the duplication of up to 8 source drives simultaneously.

9 External Storage

Images can be stored externally to a Shared Network folder, e-SATA drive or USB drive.

10 Upload and Download Images to Network Storage Area

Images files can be uploaded and downloaded to a Network Storage Area allowing the user to take advantage of large storage platforms for the purpose of processing and archiving images. With the use of the Optional 10 Gigabit Ethernet connection, units can copy and upload at speeds exceeding 4GB/min.

11 Cable Free Drive Caddies

The unit offers a Cable-Free, Drive Caddy solution for quick and easy drive insertion, minimizing maintenance costs and wear and tear issues associated with use of cables. The unit is available with either 2.5" or 3.5" Cable-Free Drive Caddies. Both versions support Cable-Free insertion of eight (8) 2.5"/1.8" or 3.5" Form Factor SATA/SAS drives, accordingly.

12 Optional IDE Drive Caddies

IDE Drive Caddies are available for 2.5"/1.8" and 3.5" IDE drives. The IDE Drive Caddies require the use of IDE Data and Power Cables.

13 Multiple Interface Ports

The unit offers up to 16 native Target SATA/SAS Drive ports, 4 dedicated SATA/SAS Master drive ports, 4 USB 3.0 ports, and a Gigabit Ethernet port. Additionally, the unit is designed with an available internal PCIe expansion bus which can be used to expand the unit's capability to support additional drive interfaces.

14 Optional PCIe Expansion Cards

The unit is equipped with an internal PCI-e Bus for upgradeability and additional device support. Examples of available PCIe Controller cards include the following:
PCIe SCSI 320Mbit/sec Controller. PCIe
PCIe FireWire Controller with two (2) 1394B ports and one (1) 1394A port.
PCIe Express Card Reader Controller which can be used to connect a broad range of Express Card compliant cards such as Express Card Memory devices (not USB based).
PCIe WiFi Controller.
PCIe 10 Gigabit Ethernet Card and more.

15 "On the fly" Drive Image Encryption* and Decryption

Utilizing the built-in AES 256 Encryption Technology the Rapid Image™ IT

encrypts with minimal speed degradation all digital data during the Cloning Process for the purpose of safe guarding sensitive information. The Rapid Image™ X2 IT creates a secure key with a user-chosen pass phrase. An AES 256 encryption key is then generated by the unit and can be saved to any USB thumb drive. The encrypted drive can be decrypted on the fly utilizing the Rapid Image™ X2 IT or any regular PC loaded with the ICS free decryption utility and the USB thumb drive containing the saved key. User can then safely image the decrypted data to an additional target drive.

* This process is NOT compatible with the DiskCypher product line

16 Convenient and Easy Upgrades

Easily updates Software through the USB port. Free Software Updates are provided periodically.

17 Remote Monitoring and Control Network Application

software that remotely controls and monitors each duplicator that is connected to the network.

18 Logs and Auditing

Store and print detail operational Event Log and Audit Trail information. The Audit Trail is saved in a PDF format using 128-bit password encryption protection.

19 Barcode Reader Support

Option for Barcode Readers available for production flow integration.

20 Easy Maintenance

The cable-less insertion mechanism incorporates a small, low cost and easy to replace connector board (SAS/SATA board and IDE board) for every slot.

21 HPA/DCO Support

The unit has the ability to copy and wipe Hidden HPA or DCO areas which may exist on hard drives

22 Friendly User Interface

Uses 8" touch screen LCD. No need for an external display, mouse or keyboard. Operational Wizard allows user to easily operate the unit. Advanced Settings can also be selected for low level control.

23 Lock Setting

Provides lock setting for secure operation.

Available Models:

Rapid Image 7020 copies up to 10 Target Drives simultaneously. Copies and uploads up to 20 Target Drives simultaneously. Sanitizes up to 16 Target Drives.



Rapid Image 7012 copies up to 6 Target Drives simultaneously. Copies and uploads up to 12 Target Drives simultaneously. Sanitizes up to 8 Target Drives.



Available Options:

2.5" Drive Support: Drive Docking and Caddy for 2.5" SAS/SATA Hard Drives.

IDE Support: IDE drives are supported with an Optional IDE Drive Caddy or by individual IDE Adapters.

Protective "flip" window: An Optional "flip" Window protects the touch screen display in harsh environments.

Status Light Tower: Status light Tower Option for a quick visual status of all unit operations.

10GBit Ethernet Card: for high speed uploading to a Network Share Storage.

System Specifications:

Supply Voltage: 100 - 240V / 50 -60 Hz 400Watt Universal auto switching input Voltage

Power Consumption: 110W

Operating Temperature: 5 degrees - 55 degrees C

Relative Humidity: 20% - 60% non-condensing

Net Weight: 37 lbs.

Overall Dimensions: 21.7" x 14.1" x 8.9"

Warranty: One Year Parts and Labor with an optional one year extended warranty.



Next Generation ICS IT Product Comparison Chart

Features	IMSolo-101 IT	IMSolo-4 IT	4000PRO IT	Rapid Image 7012	Rapid Image 7020	WipePRO
Copy Configurations:						
Max # of Deployed Targets	1	3	8	11	19	9
Max 1:1	1	2	4	6	10	N/A
Max 1:2	N/A	1	3	3	6	N/A
Max 1:3	N/A	1	2	3	5	N/A
Maximum Combination of Copy Operations	1	2	4	6	10	N/A
Interfaces Supported:						
SATA	2	4	8	11	19	8
SAS	N/A	4	8	11	19	8
SCSI	1 Requires 3rd Party SCSI-to-USB Adapter	3 Optional Expansion Module	3 Optional Expansion Module	1 Requires 3rd Party SCSI-to-USB Adapter	1 Requires 3rd Party SCSI-to-USB Adapter	3 Optional Expansion Module
USB 2.0	2	4	5	4	4	5
USB 3.0	N/A	Optional Expansion Module	Optional Expansion Module	N/A	N/A	Optional Expansion Module
e-SATA	2 Optional Adapter	1 Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
3.5"/2.5"IDE	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
Micro SATA	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
ZIF Drives	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
1.8" Drives	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
FireWire	N/A	Optional Expansion Module	Optional Expansion Module	N/A	N/A	Optional Expansion Module
Fibre	N/A	Optional Expansion Module	Optional Expansion Module	N/A	N/A	Optional Expansion Module
Flash Devices	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter	Optional Adapter
Ethernet Connection	Gigabit	Gigabit	Gigabit	Gigabit	Gigabit	Gigabit
Maximum Speed Capability	6.2 GB/min	18 GB/min	18 GB/min	18 GB/min	18 GB/min	18 GB/min
Average Speed						
SATA	5.5 GB/min	6 GB/min	6 GB/min	6 GB/min	6 GB/min	6 GB/min
SAS	N/A	7 GB/min	7 GB/min	7 GB/min	7 GB/min	7 GB/min
Solid State Drives	6.2 GB/min	12 GB/min	12 GB/min	12 GB/min	12 GB/min	12 GB/min
USB	1.4GB/min	1.4GB/min	1.4GB/min	N/A	N/A	1.4GB/min
1394B	N/A	2.4GB/min	2.4GB/min	N/A	N/A	2.4GB/min
SCSI	N/A	4GB/min	4GB/min	N/A	N/A	4GB/min
SHA-1/SHA-2 HASH H/W Acceleration	YES	YES	YES	N/A	N/A	N/A
AES Encryption	YES	YES	YES	N/A	N/A	N/A
Copy Modes						
IQ Copy	YES	YES	YES	YES	YES	N/A
Image Copy	YES	YES	YES	YES	YES	N/A
MultiMASter/VHD	YES	YES	YES	YES	YES	N/A
Image to or from External Storage						
SAN	YES	YES	YES	YES	YES	N/A
USB	YES	YES	YES	N/A	N/A	N/A
e-SATA	YES	YES	Optional eSATA Cables	N/A	N/A	N/A
FireWire	N/A	Optional Expansion Module	Optional Expansion Module	YES	YES	N/A
Wiping						
DoD	YES	YES	YES	YES	YES	YES
Single Pass	YES	YES	YES	YES	YES	YES
Secure Erase	YES	YES	YES	YES	YES	YES
Portability	Handheld	Handheld	Small Footprint	Industrial	Industrial	Small Footprint
Design Usage	Single user	Single user	Mid Size	Large	Large/Production	Large
SAS/SATA Drive Caddy Cable Free with Built-in Fans (Select between 2.5" or 3.5")	N/A	N/A	One Standard	One Standard	Two Standard	One Standard
IDE Drive Caddy Built-in Fans	N/A	N/A	Optional	Optional	Optional	Optional
Open Drive Tray	Optional	Optional	Optional	N/A	N/A	Optional
Operating System	Windows Embedded Standard	Windows Embedded Standard	Windows Embedded Standard	Windows Embedded Standard	Windows Embedded Standard	Windows Embedded Standard



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