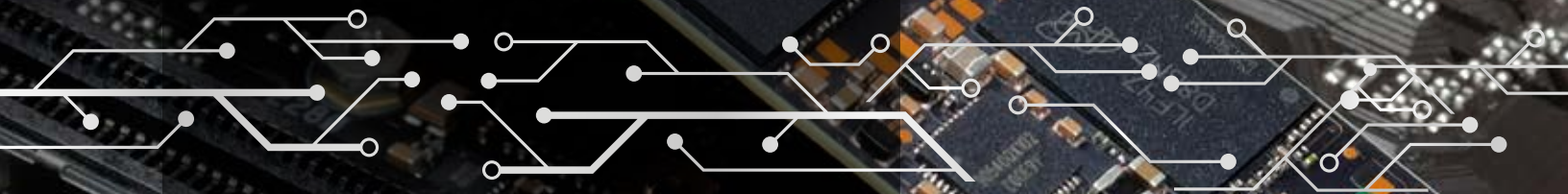# Logicube®

HARD DRIVE DUPLICATION AND DIGITAL FORENSIC PRODUCTS CATALOG

2023

MESSAGE FROM
LOGICUBE'S PRESIDENT

Since the publication of our previous product catalog in 2021, Logicube has remained at the leading edge of innovation and creativity in the design and development of digital forensic imaging and drive publication technologies. As the "market", consisting of our discerning clients as well as reviewers and analysts, has come to expect only the best and most feature-rich products from Logicube, R&D has remained the singular obsession of the Logicube organization. Logicube is now widely recognized as the unquestioned technology leader in our field, as exemplified by the vast array of peerless products assembled in this, our 2023 product catalog.

On the forensic imaging and write-blocker side of our products, Logicube's new forensic imager, the Falcon-NEO2, which was released to the market in June of this year, makes its groundbreaking appearance in this catalog. The Falcon-NEO2 surpasses the best-in-class standards set by its predecessor (Falcon-NEO) and reaches the heights of justifiably being labeled the "Best Ever" field forensic imager created to date! With imaging speeds reaching as high as 115 GB/min, SAS-3 source and destination ports, 10 Gbps USB ports, and many other unique features, the Falcon-NEO2 is our world-leading product to be found in these pages. The introduction of our ZXi-10G-Forensic multi-target lab forensic imager and the WriteProtect-USB write-blocker round out Logicube's new additions to our forensic lineup in 2023.

On the drive duplication front, the introduction of the ZXi-10G as our new 10G multi-target lab duplicator has completely reshaped the landscape for commercial duplication products. This new powerful duplicator not only supports volume duplication of traditional hard drives but also adds robust support for cloning NVMe and U.2 drives.

While R&D remains Logicube's single biggest differentiator from among other offerings in the market, we have not wavered one bit in our commitment to the highest quality standards, the most prompt customer and technical support in our industry, and the shortest lead-times in the fulfilment of our customer orders. As you browse through our 2023 catalog, we hope you will quickly discern the depth of our commitment to excellence, whether it is in R&D and being generations ahead of the rest of the field, or in supporting and pleasing our clients with service.

Farid Emrani
Logicube, Inc.
President & CEO

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DIGITAL FORENSIC IMAGING SOLUTIONS

The proliferation of workstations, laptops, Mac®, and mobile devices on one hand, and the prevalence of data storage on "Cloud Drives" and Network Attached Storage devices have increased exponentially over the last decade. Furthermore, the number of interfaces and technologies that each of these storage media present, from SCSI and FireWire to Fibre Channel and Thunderbolt, necessitate that forensic digital imagers have the capability to capture information from a multitude of sources. In addition, write blocking devices must provide the perfect security and ease when data capture and analysis from workstations is required.

Logicube's forensic imaging solutions have been for many years the leading forensic component used around the world by governments, law enforcement, military, and corporate organizations. The unique enhancements in functionality and capability of Logicube's flagship forensic imager, for instance, provide support for a variety of interfaces, encryption, mobile device capture, network traffic, cloud collections, and remote operation. Logicube remains the global leader in the field of data imaging and offers the "Best in Class" solutions among the digital forensic imagers in its market.

- Logicube's digital forensic imaging solutions attain capture speeds of up to 50 GB/min and Wipe speeds of 30 GB/min for SATA drives and 72 GB/min for PCIe drives
- Provide support for PCIe, NVMe, SAS, SCSI, Fibre Channel, FireWire, and Thunderbolt drives
- Can capture from Mobile devices and Cloud-Based storage (with optional subscriptions)
- Wipe destination drives according to NIST 800-88 standards

- Can multi-task and perform parallel imaging
- Provide a variety of imaging methods (DD, E01, EX01, DMG, L01, LX01, etc.)
- Capture network, internet, and VOIP activity
- Encrypt destination drives
- Decrypt BitLocker, VeraCrypt, OPAL, TrueCrypt and unlock ATA locked source drives

Whether you need to capture from laptops, MacBook® computers, or mobile devices, or need to image drives with interfaces ranging from SCSI to Thunderbolt, Logicube's array of forensic imagers and write blockers provide the premier solutions for the challenging demands placed on forensic investigators and are must have solutions for all digital forensic, cyber security or specialist information technology practitioners.

Falcon®-NEO2

WriteProtect™-BAY

IMAGERS COMPARISON CHART

	Forensic Falcon®-NEO2	Talon® Ultimate
Dimensions	10″ W x 6.75″ D x 3.25″ H (254 mm x 171 mm x 83 mm)	7.6″ W x 5.5″ D x 2.6″ H (193 mm x 140 mm x 66 mm)
Weight	3.35 lb (1.52 kg, 53.6 oz)	2.0 lb (0.9 kg, 32 oz)
Color touchscreen display	7″ capacitive, angled, color touchscreen display	7″ capacitive, color touchscreen display
Web-based user interface (web browser)	Yes	Yes
Remote access	Yes – Using a web browser and Command Line Interface (CLI). Users can view the Falcon-NEO2 GUI on their PC, iPad, tablet, or smartphone (scaled to fit those devices).	Same as Falcon-NEO2
Imaging Speeds*	Up to 115 GB/min with e01, verify, & SAS SSDs. Surpassing 50 GB/min with e01, verify, & SATA SSDs.	40 GB/min with e01, verify, & SSDs
Total built-in write-protected source drive support	10 (4 SAS/SATA, 2 USB 3.2 Gen 2, 1 PCIe 4-lane slot, , 10GbE, 2 optional I/O ports). USB can be converted to SATA with a USB to SATA adapter.	5 (2 SAS/SATA, 1 USB 3.0, 1 FireWire, 1 PCIe. USB can be converted to SATA with a USB to SATA adapter.
Total number of connected source drives that can be imaged from concurrently	5	5
Total built-in destination drive support	11 (4 SAS/SATA, 4 USB 3.2 Gen 2, 1 PCIe 4-lane, 10GbE, 1 optional I/O card port). USB can be converted to SATA with a USB to SATA adapter.	4 (2 SAS/SATA, 1 USB 3.0, 1 FireWire). USB can be converted to SATA with a USB to SATA adapter.
Total number of connected destination drives that can be imaged to concurrently	11	4

Drive Interfaces supported	• SATA/SAS/USB/PCIe built-in
	• M.2 NVMe/SATA/AHCI and mini-PCIe cards require an optional PCIe adapter kit
	• Thunderbolt 3/USB-C – Optional I/O card available
	• mSATA, Micro SATA, eSATA – Adapters included
	• PATA/IDE & Flash media – Optional adapters available
	• Optional modules available for:
	  - FireWire
	  - Fibre Channel
	  - SCSI
		• SAS/SATA/USB/FireWire/PCIe built-in
		• M.2 NVMe/SATA/AHCI and mini-PCIe cards require an optional PCIe adapter kit
		• mSATA, Micro SATA, eSATA, PATA/IDE, & Flash media – Optional adapters available
		• Not Supported:
		  - Thunderbolt-3/USB-C
		  - SCSI
		  - Fibre Channel

Ethernet port	Two 10 GbE ports. Image to a 10 GbE NAS at speeds of 30 GB/min.	1 Gigabit Ethernet port
I/O card ports	Yes – Includes 2 source and 1 destination I/O card ports to support new interface technologies as they arrive on the market. A Thunderbolt 3/USB-C I/O card is available.	No
Cloud Storage Capture	Yes – Capture from Microsoft OneDrive, Google Drive, and Dropbox. Available as a subscription option.	No
Targeted Imaging. Create a logical image, filter, use keyword search	Yes – Create a logical image by selecting files/folders, using pre-set filters, custom filters, signature filters, and keyword search. Format out to L01, LX01, ZIP, or directory tree.	Yes – Create a logical image by selecting files/folders, using pre-set filters, custom filters, signature filters, and keyword search. Format out to L01, LX01, ZIP, or directory tree.
Image from a Mac®	Yes – Image from a Mac® with USB-C ports using Target Disk Mode (requires a USB-C to USB-A cable) or image a source drive from a Mac on the same network and use Logicube's USB boot device. Supports MacBook Pro®.	Yes – Capture from a Mac® booted in target disk mode using the FireWire port or use the USB Boot Client to image over a network connection. Supports MacBook Pro and Macs with USB-C ports.
End of task notification	Yes – Email and/or sound on success and/or error.	Yes – Audible notification on success and/or error.
Image to/from a network repository	Yes – Using CIFS or iSCSI protocols. Two 10 GbE ports are available.	Yes – Using CIFS or iSCSI protocols using one Gigabit Ethernet port.
Hash Algorithms	MD5, SHA1, SHA256. Dual Hash (MD5+SHA1). SHA1+SHA256 and MD5+SHA256 available with ex01.	MD5, SHA1, SHA256. Dual Hash (MD5+SHA1)
Error Handling/Error Granularity	Provides error granularity settings to improve error handling. Changing the granularity allows more sectors to be skipped. There are 3 options (512 Bytes, 4096 Bytes, 64 KiB). Reverse Read can be set.	Provides error granularity settings to improve error handling. Changing the granularity allows more sectors to be skipped. There are 3 options (512 Bytes, 4096 Bytes, 64 KiB).
Image+Verify concurrently	Yes – Takes advantage of fast destination drives. The duration of total image+verify processing time may be reduced by up to half.	Same as Falcon-NEO2
Parallel Imaging - Image to multiple destinations with different image formats	Yes – Image to multiple destinations using a different format for each destination (native, dd, e01, ex01, .dmg, file).	Same as Falcon-NEO2
Image from a PC/Laptop without removing the drive	Yes – Create a forensic bootable USB flash drive to image a source drive from a computer on the same network without booting the PC's native OS. Supports Surface PRO 4 and above.	Same as Falcon-NEO2

	Forensic Falcon®-NEO2	Talon® Ultimate
Wipe feature	• Secure Erase and/or single/custom pass/DoD. • Secure Erase SATA/SAS/IDE/NVMe SSDs. • Custom pass is customizable up to 7 passes and has customizable (none/partial/full) verify setting for any or all passes conforming with NIST 800-88 SP1 standards. • DoD has pre-configured 7 passes with customizable (none/partial/full) verify settings for any or all passes. • Complies with NIST 800-88 R1 Guidelines for Clear (Custom Pass) and/or Purge (Secure Erase).	Same as Falcon-NEO2
Network "push" feature	Yes – Push evidence files from destination drives connected to Falcon-NEO2 or from a Falcon-NEO2 repository to a network location. Performs a hash during the push process and verifies the file transfer to ensure data integrity.	Same as Falcon-NEO2
Image from CD/DVD/Blu-ray	Yes – Use a USB optical drive connected to Falcon-NEO2's USB port. Supports multi-session CD/DVDs.	Same as Falcon-NEO2
Task Macro (set tasks to be performed sequentially)	Users can set specific tasks to be performed sequentially (E.g. wipe the destination drive then hash the source drive then image the source drive). All tasks within the Macro will be performed automatically. Up to 5 macros each with up to 9 operations.	Same as Falcon-NEO2
Destination Encryption/Decryption	Supports XTS-AES 256 Encryption. Decrypt using Falcon-NEO2, Vera-Crypt, or Free OTFE decryption software.	Same as Falcon-NEO2
Multi-task. Image from multiple sources to multiple destinations. Image to one drive, wipe another concurrently	Yes – Image simultaneously from multiple sources to multiple destinations, including a network repository. Image to one location while hashing and/or wiping a second drive. Perform up to 5 tasks concurrently. Little or no speed degradation when imaging from 2 sources to 2 destinations simultaneously.	Same as Falcon-NEO2
Secure drive preview/triage	Yes – Preview drive contents directly on the Falcon-NEO2. File browser feature provides logical access to source or destination drives. View the drive's partitions and contents. View text files, jpeg, PDF, XML, HTML files. View contents of dd, e01, ex01, dmg, L01 image files created by Falcon-NEO2. Other methods to preview including using the file browser feature and Falcon-NEO2's web browser on a PC or preview over a network via SMB or iSCSI. 3rd party analysis tools can be used with SMB or iSCSI methods.	Same as Falcon-NEO2
Drive spanning	Yes	Same as Falcon-NEO2
Image formats	Native, dd, .dmg, e01, ex01	Same as Falcon-NEO2
E01/Ex01 Compression	Yes	Same as Falcon-NEO2
Display, print, save logs	Yes – Output to PDF, HTML, and XML formats.	Same as Falcon-NEO2
Password-protected user-profiles	Set password-protected user-profiles and save configurations/settings, e.g. "image S1 to D1" for frequently used tasks. Can set passwords for local/remote HTTP, Config lock, log file deletion.	Same as Falcon-NEO2
Image and/or wipe HPA/DCO/ACS3 (AMA)	Yes	Same as Falcon-NEO2
Blank disk check	Yes	Same as Falcon-NEO2
Stealth Mode (turn off display for privacy)	Yes	Same as Falcon-NEO2
Firmware/Software updates	Free software and firmware updates. Update via a network connection or using a USB thumb drive.	Same as Falcon-NEO2
APFS (Apple® File System) Support	Yes – Supports logical imaging using File to File mode from source drives formatted APFS. Requires use of our Advanced set-up. The Falcon-NEO2 can also view and browse APFS files using our File Browser feature.	No
BitLocker, Opal, VeraCrypt, and TrueCrypt decryption Support	Yes – Decrypt BitLocker, Opal, VeraCrypt, and TrueCrypt encrypted drives (requires decryption password) then image these decrypted source drives.	No
Mobile Device Capture	Yes – Capture SMS, MMS, photos, videos & more from iOS and Android devices. Available as a subscription option.	No
Network Traffic Capture	Yes – Capture network traffic, internet activity, and VoIP. Sniff data on a network and store captured packets on a drive connected to Falcon-NEO2.	No
Export S.M.A.R.T. data	Yes – S.M.A.R.T. pre and post data logs for Source drives used in the Drive to File and Partition to File imaging tasks are automatically exported to the Destination.	No
Resume Function	Yes – Can resume aborted or interrupted imaging tasks or if power has been interrupted.	No
Capture Path Selection	Yes – Add folders to the destination repository and then select and image to the named folder.	No
Partition Imaging	Yes – Select and create a logical image of specific partitions on the source drive to e01, ex01, dd, or dmg image format.	No
Image Restore	Yes – Restore a case that was previously captured using Falcon-NEO2 (e01, ex01, dd, .dmg) to its original format.	No
Unlock & Image ATA Security Standard	Yes – Supports unlocking of drives that are locked with ATA Security Standard (requires password).	No

Falcon®-NEO2

Falcon®-NEO2

BEST IN CLASS • EFFICIENT • SCALABLE

The Falcon-NEO2 is the groundbreaking follow-on to the Falcon®-NEO which has long been recognized as the "Best In Class" among all imagers. Retooled and optimized with a powerful new engine, the Falcon-NEO2 is the first field imager surpassing 100GB/min E01 capture speeds. The Forensic Falcon-NEO2 is designed to take the already peerless standards set by Logicube to a higher level by offering features, capabilities, and speeds not available on any forensic field imager before.

Falcon®-NEO2
FEATURES

- **Imaging Speeds:**
  Achieve SAS-3 SSD to SAS-3 SSD imaging speeds up to 115 GB/min. SATA SSD to SATA SSD imaging at over 50 GB/min. Clone PCIe to PCIe exceeding 100 GB/min.

- **Built-in Ports:**
  Source: 4 SATA/SAS drives supported on 1 port, 2 USB 3.2 Gen 2 (10 Gbps), 1 PCIe, 2 I/O ports

  Destination: 4 SATA/SAS drives supported on 1 port, 4 USB 3.2 Gen 2 (10 Gbps), 1 PCIe, 1 I/O port

  Network: 2 10 GbE ports

- **Interface Support included:**
  SATA/SAS, USB, PCIe, mSATA, microSATA, eSATA cable, Cloud Storage Acquisition

  Optional adapters: M.2 and PCIe adapter kit, 2.5"/3.5" IDE adapter, 1.8" IDE, ZIF, USB to SATA, USB 3.0 4-port hub, Flash media

  Optional Modules: Thunderbolt™/USB-C I/O Card, FireWire®, SCSI, Fibre Channel

  Optional Software Subscriptions: Mobile Device Capture Option

- **Network Capability:**
  2 10 GbE Ports used for remote operation, network repositories, USB Boot Client, network traffic capture and software updates. The two network ports allow for a superior configurable security setup.

- **AFF4:**
  Support forthcoming

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process.

- **Multiple Imaging and Capture Modes:**
  Drive to File – Creates DD, E01, Ex01, and DMG image files of the Source drive

  File to File – Logically image specific file types by file extension, folders/directories, specific files, and from Cloud storage.

  Drive to Drive – Bit-for-bit copy

Partition to File – Select and image specific partitions on the source drive.

Net Traffic to File – Capture network traffic, internet activity, and VOIP. Sniff data on a network and store captured packets to destination drives. Data is saved to a .pcapng format.

File to Drive – Restore Falcon-Neo2 created DD, E01, Ex01, and DMG image files to their original state

Mobile to File – Acquire critical digital evidence from mobile devices, including Apple® iPhones, iPads, Android phones and tablets. Mobile Device Capture requires the purchase of a renewable software subscription.

- **USB Boot Client:**
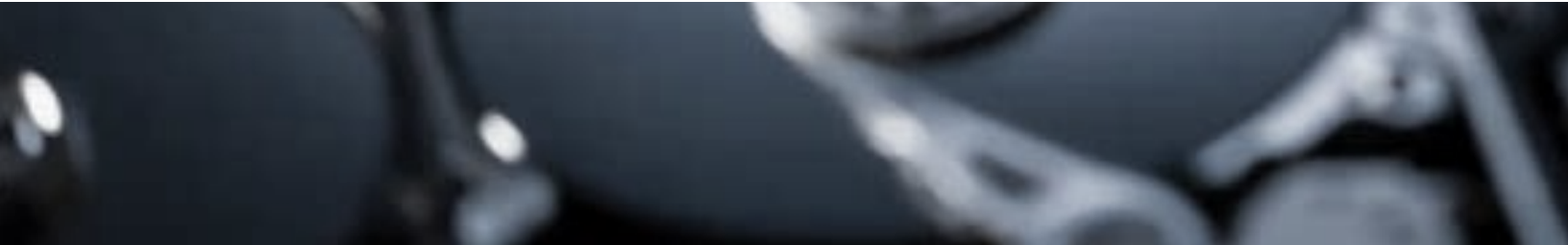 Image from a computer on the same network without removing the drive from the computer

- **Image from a Mac Computer:**
  Image from a Mac computer with USB-C ports using a USB-C to USB-A cable and Target Disk Mode. Users can also image from Mac computers using Logicube's USB Boot Client.

- **File Browser:**
  Preview drive contents directly on the Falcon-NEO2. The file browser feature provides logical access to source or destination drives and network repositories connected to Falcon-NEO2.

- **Concurrent Image + Verify:**
  Imaging and verifying concurrently takes advantage of fast destination drives or a 10 GbE connection that are faster than the source drives. Duration of total image process time may be reduced by up to half.

- **Parallel Imaging:**
  Simultaneously perform multiple imaging tasks from the same source drive to multiple destinations using different imaging formats. Supports up to 5 imaging tasks at a time.

- **Encryption:**
  Secure sensitive evidence data with open-source whole drive NIST recommended XTS-AES-256 encryption cipher mode.

- **Encryption Detection:**
  Whole disk and partition level encryption detection. Easily identify Source drives with possible encryption.

- **Capture Path Selection:**
  Add folders to the destination repository and then select and image to the named folder. Empty folders can be deleted, and folders can be renamed.

- **Partition Imaging:**
  Select and image specific partitions from the source drive.

- **BitLocker, OPAL, VeraCrypt, and TrueCrypt Decryption Support:**
  Decrypt partitions (requires the recovery key or password) and then image the selected partition. BEK (BitLocker Encryption Key) file is supported to unlock FIPS-compliant BitLocker encryption.

- **Network Traffic Capture:**
  Capture network traffic, internet activity and VOIP. Sniff data on a network and store captured packets on a hard drive connected to Falcon-NEO2.

- **Image Restore:**
  File to drive mode restores DD, E01, Ex01, and DMG images created by the Falcon-NEO2 to another drive.

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors. Bad sectors can be skipped, or the imaging task can automatically abort when bad sectors are encountered. Reverse Read skips the bad block then reads the data backwards potentially capturing data that may not necessarily be read by skipping the entire block.

- **Dimensions:**
  10" x 6.75" x 3.25" (254 mm x 171.45 mm x 82.55 mm)

Falcon®-NEO2 *(continued)*

Falcon®-NEO2
OPTIONS

• **Additional Hardware Options:**

Thunderbolt/USB-C I/O card: An optional I/O card supports imaging directly to/from Thunderbolt 3/USB-C and USB 3.1 Gen 2 external drives and storage enclosures. The card connects to either of the 2 write-protected source I/O ports or 1 destination I/O port.

Thunderbolt™/USB-C I/O Card

Thunderbolt™/USB-C I/O Card, installed

FireWire Module: The FireWire Module option provides support for FireWire enclosures. The FireWire Module connects to either of the PCIe ports and can provide 1 write-protected FireWire source or destination port.

FireWire Module

FireWire Module, connected

SCSI Module: The SCSI Module option provides support for 68-pin SCSI drives. The SCSI Module connects to either of the PCIe ports and can provide 1 write-protected SCSI source or destination port. Optional adapters are available for 50-pin and 80-pin SCSI drives.

SCSI Module

SCSI Module, connected

Fibre Channel Module: The Fibre Channel Module option provides support for 40-pin Fibre Channel drives. The Fibre Channel Module connects to either of the PCIe ports and provides support for imaging to or from one 40-pin Fibre Channel drive.

An additional kit is available to allow cloning to and from two 40-pin Fibre Channel drives.

Fibre Channel Module

Fibre Channel Module, connected

Falcon®-NEO2
OPTIONS

• Additional Software Option:

Mobile Device Capture Option: This optional renewable software subscription expands the functionality of the Forensic Falcon®-NEO2 with a convenient method to quickly acquire potential evidence data from mobile devices including Apple® iPhones, iPads, Android phones and tablets. For field investigations, adding this software option to the Falcon-NEO2 reduces the need to bring additional hardware to the scene to collect critical evidence from mobile devices.

Mobile devices are connected to the Falcon®-NEO2's USB or optional Thunderbolt/USB-C source port. Capture data to any destination drive or network repository connected to Falcon-NEO2. One device type (iOS or Android) at a time.

Easily capture evidence data from passkey-unlocked mobile devices including call logs, iMessages, SMS, MMS, photos, videos, contacts, activity, website history and Wi-Fi settings.

For unlocked iOS devices, the software performs an iTunes backup.

A physical acquisition is performed for rooted Android devices. A logical acquisition is performed for nonrooted Android devices. An Android logical acquisition produces an Android backup file (backup. ab). Call logs, contacts, SMS and calendar are in JSON format. An Android physical acquisition will produce a single dd image file.

Preview Flash-Friendly File System (F2FS) using Falcon-NEO2's built-in File Browser.

Audit trail logs are created and can be viewed on Falcon-NEO2 or via a web browser, exported to XML, HTML or PDF format to a USB enclosure.

Falcon®-NEO2 *(continued)*

Falcon®-NEO2
ACCESSORIES

- **mSATA to SATA adapter (1 included with Falcon-NEO2)**
- **microSATA to SATA adapter (1 included with Falcon-NEO2)**
- **eSATA to SATA cable (1 included with Falcon-NEO2)**
- **1-to-4 SAS/SATA cable (2 included with Falcon-NEO2)**
- **PCIe adapter kit:**
  Kit for M.2 NVMe/PCIe, M.2 SATA, and mini-PCIe cards. Includes 1 each: M.2 PCIe adapter, M.2 SATA adapter, mini-PCIe adapter, and PCIe extender cable.
- **2.5"/3.5" IDE to SATA adapter**
- **USB to SATA kit:**
  Used for cloning various flash media, including compact flash, SD cards.
- **USB3 to SATA adapter**
- **USB flash reader:**
  Used for cloning various flash media including CF and SD cards
- **4-port USB 3.0 hub**
- **Falcon-NEO2 hard case (case only, with laser-cut foam)**
- **50-pin to 68-pin SCSI adapter (for use with Falcon-NEO2 SCSI Module option)**
- **80-pin to 68-pin SCSI adapter (for use with Falcon-NEO2 SCSI Module option)**

IN THE BOX

- **Power supply & U.S. power cord**
- **2 1-to-4 SAS/SATA cables**
- **2 CAT 7 network cables**
- **eSATA to SATA cable**
- **mSATA to SATA adapter**
- **microSATA to SATA adapter**
- **USB 3.2 male type-A to USB 3.2 male type-C cable**
- **Soft-sided carrying case**
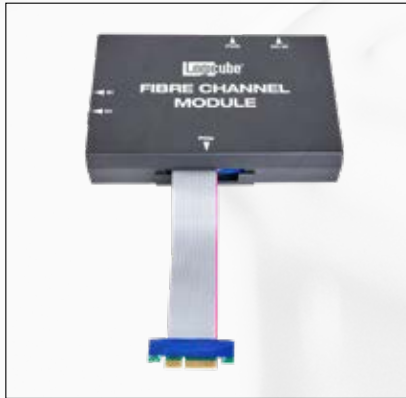
Falcon®-NEO2
CASES

Hard case only (with laser-cut foam)

Soft-sided carrying case included

Falcon®-NEO2
HARDWARE OPTIONS

Fibre Channel Module

FireWire Module

SCSI Module

Thunderbolt™/USB-C I/O Card

Talon®Ultimate

STREAMLINED WORKFLOW • FIELD READY

The Talon® Ultimate delivers advanced, high-performance forensic imaging at unbeatable imaging speeds of over 40 GB/min. Designed for field or forensic lab use, this forensic imager features a compact footprint, user-friendly navigation, and a budget-friendly price. The Talon Ultimate continues the proud legacy of previous generations of the Talon® forensic imaging solutions. Engineered specifically for digital forensic investigators, the Talon Ultimate meets all your forensic imaging, hashing and wiping requirements.

Talon® Ultimate

Talon® Ultimate
FEATURES

- **Imaging Speeds:**
  Image at over 40 GB/min

- **Built-in Ports:**
  Source: 2 SAS/SATA, 1 USB 3.0, 1 PCIe, 1 FireWire
  Destination: 2 SAS/SATA, 1 USB 3.0, 1 FireWire
  Network: 1 Gigabit Ethernet port

- **Drive Interface Support Included:**
  SATA/SAS, USB, PCIe, FireWire

  > **Optional adapters**: M.2 and PCIe adapter kit, mSATA, microSATA, eSATA, 2.5"/3.5" IDE to SATA, 1.8" & 1.8" IDE ZIF, USB to SATA adapter, USB 3.0 4-port hub, Flash media

- **Network Capability:**
  1 Gigabit Ethernet Port used for remote operation, network repositories, USB Boot Client, and software updates

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process.

- **Multiple Imaging and Capture Modes:**
  Drive to File – Creates DD, E01, EX01, and DMG image files of the Source drive
  File to File – Create a logical image using pre-set, custom filters, and file signatures
  Drive to Drive – Bit-for-bit copy

- **USB Boot Client:**
  Image from a computer on the same network without removing the drive from the computer

- **Image from a Mac Computer:**
  Image from a Mac computer booted in Target Disk Mode using the write-blocked FireWire port on Talon Ultimate. Mac computers with either FireWire or Thunderbolt™ 2 ports can be connected to the Talon Ultimate. Users can also image from Mac computers using Logicube's USB boot device.

- **File Browser:**
  Preview drive contents directly on the Talon Ultimate. The file browser feature provides logical access to source or destination drives connected to Talon Ultimate.

- **Concurrent Image +Verify:**
  Imaging and verifying concurrently takes advantage of fast destination drives that are faster than the source drives. Duration of total image process time may be reduced by up to half.

- **Parallel Imaging:**
  Perform multiple imaging tasks from the same source drive to multiple destinations using different imaging formats. Supports up to 5 imaging tasks at a time.

- **Encryption:**
  Secure sensitive evidence data with whole disk, open standard, drive encryption using the NIST recommended XTS-AES-256 cipher mode

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors

- **Dimensions:**
  7.6" x 5.5" x 2.6" (193 mm x 140 mm x 66 mm)

- **Warranty:**
  3-year standard warranty included

Talon® Ultimate
ACCESSORIES

- **PCIe adapter kit:**
  Kit for M.2 PCIe, M.2 NVMe, M.2 SATA, mSATA SSD, PCIe and mini-PCIe cards. Includes 1 each: M.2 PCIe, M.2 SATA, mSATA, Mini PCIe.

- **mSATA to SATA adapter**

- **microSATA to SATA adapter**

- **eSATA cable**

- **18" extended SATA cable set**

- **2.5"/3.5" IDE to SATA adapter**

- **1.8" ZIF to IDE and 1.8" IDE to SATA adapter**

- **USB Flash Reader**
  Used for cloning various flash media, including compact flash, SD cards.

- **USB3 to SATA adapter.**
  Convert USB 3.0 ports for use with SATA drives.

- **4-port USB 3.0 hub**

- **SATA/SAS data & power replacement cable**

- **Talon Ultimate soft-sided carrying case**

- **Talon Ultimate Hard Case**

Talon® Ultimate
CONNECTIVITY

SSD to SSD

PCie to SSD

Talon® Ultimate
CASES

Hard case only (foam not included)

Soft-sided carrying case

IN THE BOX

- **Power supply & U.S. power cord**
- **3 SATA/SAS power & data cables**
- **1 CAT 6 network cable**
- **4 eSATA 6-pin SATA power (for eSATA drives)**
- **1 FireWire cable**
- **1 USB 3.0 device cable**
- **User's Manual on CD-ROM**

ZXi™-10G-Forensic

LAB CENTRIC • MULTI-TARGET

The next generation of our ZXi™-Forensic, the ZXi™-10G-Forensic achieves imaging speeds up to 50 GB/min. Two 10GbE ports, one 2.5GbE port, support for up to 16 M.2 NVMe SSDs (8 Sources, 8 Destinations with optional PCIe Expansion Modules), built-in SAS/SATA support for up to 5 Sources and 5 Destinations (with optional 4-port Drive Expansion Kit), 3 USB 3.2 Sources, 6 USB 3.2 Destinations, and two Thunderbolt 4 ports, along with the ZXi™-10G-Forensic's advanced features provide efficient and secure digital evidence collection.

ZXi™-10G-Forensic

ZXi™-10G-Forensic
FEATURES

- **Imaging Speeds:**
  Image at over 50 GB/min

- **Built-in Ports:**
  Source: 5 SATA/SAS, 2 USB 5 Gbps (Type-A), 1 USB 20 Gbps (Type-C), 1 Thunderbolt 4/USB 20 Gbps (Type-C), 2 U.2, up to 8 M.2 NVMe SSDs (with optional NVMe Expansion Modules)

  Destination: Up to 3 SATA/SAS and 2 SATA (with optional Expansion Kit), 2 USB 10G Gbps (Type-A), 4 USB 5 Gbps (Type-A), 1 Thunderbolt 4/USB 20 Gbps (Type-C), 2 U.2, up to 8 Mn2 NVMe SSDs (with optional NVMe Expansion Modules)

  Network: 2 10 GbE and 1 2.5 GbE

- **Drive Interface Support Included:**
  SAS, SATA, USB, Thunderbolt, U.2

  | **Optional adapters:** NVMe Expansion module, 2.5"/3.5" IDE, mSATA, microSATA, eSATA, 1.8" IDE, 1.8" ZIF, Flash media

- **Network Capability:**
  2 10 GbE ports and 1 2.5 GbE port used for remote operation, network repositories, USB Boot Client, and software updates. The three network ports allow for a superior configurable security setup.

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines.

- **Multiple Imaging and Capture Modes:**
  Drive to File – Creates DD, E01, Ex01, and DMG image files of the Source drive

  File to File – Logically image specific file types by file extension, folders/directories, or specific files

  Drive to Drive – Bit-for-bit copy

  Partition to File – Select and image specific partitions on the source drive.

Net Traffic to File – Capture network traffic, internet activity, and VOIP. Sniff data on a network and store captured packets to destination drives. Data is saved to a .pcapng format.

File to Drive – Restore ZXi-10G-Forensic created DD, E01, Ex01, and DMG image files to their original state

- **USB Boot Client:**
  Image from a computer on the same network without removing the drive from the computer.

- **File Browser:**
  Preview drive contents directly on the ZXi Forensic. The file browser feature provides logical access to source or destination drives connected to ZXi Forensic.

- **Concurrent Image+ Verify:**
  Imaging and verifying concurrently takes advantage of fast destination drives that are faster than the source drives. Duration of total image process time may be reduced by up to half.

- **Parallel Imaging:**
  Simultaneously perform multiple imaging tasks from the same source drive to multiple destinations using different imaging formats. Supports up to 5 imaging tasks at a time.

- **Encryption:**
  Secure sensitive evidence data with open-source whole drive NIST recommended XTS-AES-256 encryption cipher mode.

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors. Bad sectors can be skipped, or the imaging task can automatically abort when bad sectors are encountered.

- **Dimensions:**
  3.7" x 19" x 17.2" (94 mm x 483 mm x 437 mm)

ZXi™-10G-Forensic
OPTIONS

- **Additional Hardware Options:**

4-Port Drive Expansion Kit: Provides an additional 2 SATA/SAS and 2 SATA-only drive stations. Includes 4 drive stations, 4 cables, and a drive tray.

NVMe Expansion Module: Provides support for up to 8 M.2 NVMe SSDs. Up to two NVMe Expansion Modules can be used with the ZXi-10G-Forensic. Each module can be 4 as Source and 4 as Destination, all 8 as Source, or all 8 as Destination.

4-Port Drive Expansion Kit

NVMe Expansion Module

ZXi™ 10G-Forensic
ACCESSORIES

- **mSATA to SATA adapter**
- **microSATA to SATA adapter**
- **eSATA cable**
- **2.5"/3.5" IDE to SATA adapter**
- **1.8" IDE to SATA adapter**
- **1.8" ZIF to SATA adapter**
- **USB Flash Reader:**
  Used for cloning various flash media, including compact flash, SD cards.
- **SATA/SAS data & power replacement cable**

ZXi-10G-Forensic with 2 NVMe Expansion Modules

IN THE BOX

- **Power supply and U.S. power cord**
- **6 SATA/SAS 5" power & data cables**
- **3 CAT 7 network cables**
- **User's manual on CD-ROM**

WriteProtect™-BAY

SUPPORT FOR 5 DIFFERENT SIMULTANEOUS INTERFACE TECHNOLOGIES

The WriteProtect™-BAY write-blocker provides secure, read-only, write-blocked access to SAS, SATA, USB3.0, FireWire®, IDE (IDE supported with an adapter) and PCIe M.2 suspect hard drives. Extremely fast performance is powered by a SuperSpeed USB 3.0 host connection to easily manage large capacity hard drives. The WriteProtect-BAY provides support for 5 different simultaneous interface technologies in a 5.25", half-height design that fits into the drive bay of your forensic workstation.
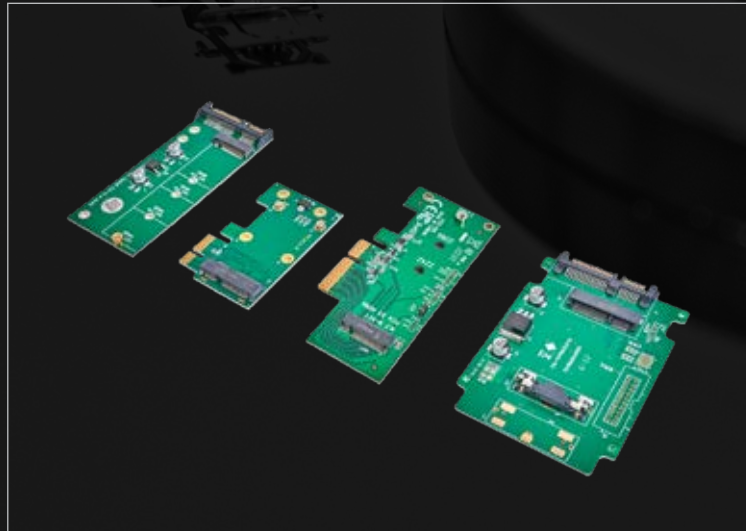
WriteProtect™-BAY

WriteProtect™-BAY
FEATURES

- **Built-in Ports:**
  2 SATA/SAS, 1 USB 3.0, 1 PCIe, 1 FireWire® 800
  Network:1 Gigabit Ethernet port

- **Drive Interface Support Included:**
  SATA/SAS, USB, PCIe, FireWire, 2.5"/3.5" IDE

  | **Optional adapters**: M.2 and PCIe adapter kit, mSATA, microSATA, eSATA, 1.8" & 1.8" IDE ZIF, USB to SATA adapter, Flash media

- **Network Capability:**
  1 Gigabit Ethernet Port used for remote browsing and software updates.

- **Multi-Task:**
  Improve efficiency and shorten the evidence collection process with the ability to image (using your own forensic imaging software) multiple source drives simultaneously.

- **Preview Drives:**
  Preview drives connected to WriteProtect using the browser-based user interface.

- **Browser-based User Interface:**
  Use the browser-based user interface to manage all WriteProtect operations including software updates. Connect to your network using the WriteProtect's Gigabit Ethernet Port.

- **5 LEDs:**
  Easily monitor functions with 5 LEDs for power, host, device, activity and HPA/DCO detection.

- **HPA/DCO:**
  HPA/DCO detection and capture is easily managed via the WriteProtect's browser-based user interface.

- **Dimensions:**
  8.3" x 5.75" x 1.63" (211 mm x 146 mm x 42 mm)

WriteProtect™-BAY
ACCESSORIES

- **PCIe adapter kit:**
  Kit for M.2 PCIe, M.2 NVMe, M.2 SATA, mSATA SSD, PCIe and mini-PCIe cards. Includes 1 each: M.2 PCIe, M.2 SATA, mSATA, Mini PCIe.

- **mSATA to SATA adapter**

- **microSATA to SATA adapter**

- **eSATA cable**

- **18" extended SATA cable set**

- **2.5"/3.5" IDE to SATA adapter (1 Included with WriteProtect-BAY)**

- **1.8" ZIF to IDE and 1.8" IDE to SATA adapter**

- **USB Flash Reader:**
  Used for cloning various flash media, including compact flash, SD cards.

- **USB3 to SATA adapter:**
  Convert USB 3.0 ports for use with SATA drives.

- **SATA/SAS data & power replacement cable**

PCIe adapter kit

IN THE BOX

- **2 SAS/SATA power and data cables**
- **1 Firewire cable**
- **1 2.5"/3.5" IDE to SATA adapter**
- **1 USB 3.0 Type-A Male to Micro-B cable**
- **1 CAT 6 network cable**
- **1 Dual 4-pin molex to 6-pin PCIe Y adapter**
- **User's Manual on CD-ROM**

WriteProtect™-DESKTOP

WriteProtect™-DESKTOP

SUPPORT FOR 5 DIFFERENT SIMULTANEOUS INTERFACE TECHNOLOGIES

The WriteProtect-DESKTOP provides digital forensic professionals with fast, secure, read-only write-blocking of suspect hard drives. The only portable write-blocker that provides support and mounting for 5 different simultaneous interface technologies, the WriteProtect-DESKTOP is the ideal write-block solution for lab or field acquisitions.
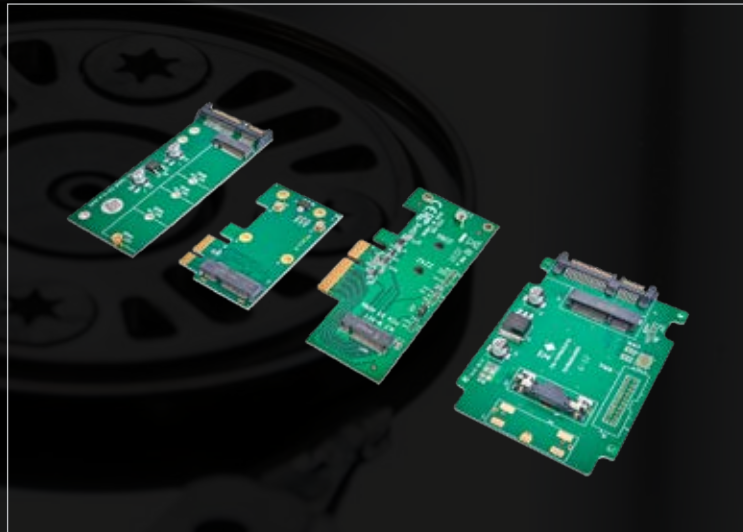
WriteProtect™-DESKTOP
FEATURES

- **Built-in Ports:**
  2 SATA/SAS, 1 USB 3.0, 1 PCIe, 1 FireWire® 800
  Network: 1 Gigabit Ethernet port

- **Drive Interface Support Included:**
  SATA/SAS, USB, PCIe, FireWire, 2.5"/3.5" IDE

  Optional adapters: M.2 and PCIe adapter kit, mSATA, microSATA, eSATA, 1.8" & 1.8" IDE ZIF, USB to SATA adapter, Flash media

- **Network Capability:**
  1 Gigabit Ethernet Port used for remote browsing and software updates.

- **Multi-Task:**
  Improve efficiency and shorten the evidence collection process with the ability to image (using your own forensic imaging software) multiple source drives simultaneously.

- **Preview Drives:**
  Preview drives connected to WriteProtect using the browser-based user interface.

- **Browser-based User Interface:**
  Use the browser-based user interface to manage all WriteProtect operations including software updates. Connect to your network using the WriteProtect's Gigabit Ethernet Port.

- **8 LEDs:**
  Easily monitor functions with 8 LEDs for power, host, device, activity and HPA/DCO detection.

- **HPA/DCO:**
  HPA/DCO detection and capture is easily managed via the WriteProtect's browser-based user interface.

- **Dimensions:**
  7.87" x 5.37" x 2.3" (200 mm x 136 mm x 58 mm)

WriteProtect™-DESKTOP
ACCESSORIES

- **PCIe adapter kit:**
  Kit for M.2 PCIe, M.2 NVMe, M.2 SATA, mSATA SSD, PCIe and mini-PCIe cards. Includes 1 each: M.2 PCIe, M.2 SATA, mSATA, Mini PCIe.

- **mSATA to SATA adapter**

- **microSATA to SATA adapter**

- **eSATA cable**

- **18" extended SATA cable set**

- **2.5"/3.5" IDE to SATA adapter (1 Included with WriteProtect-DESKTOP)**

- **1.8" ZIF to IDE and 1.8" IDE to SATA adapter**

- **USB Flash Reader:**
  Used for cloning various flash media, including compact flash, SD cards.

- **USB3 to SATA adapter:**
  Convert USB 3.0 ports for use with SATA drives.

- **SATA/SAS data & power replacement cable**

PCIe adapter kit

IN THE BOX

- **Power supply & U.S. power cord**
- **2 SAS/SATA power & data cables**
- **1 Firewire cable**
- **1 2.5"/3.5" IDE to SATA adapter**
- **1 USB 3.0 Type-A Male to Micro-B cable**
- **1 CAT6 network cable**
- **User's Manual on CD-ROM**

WriteProtect™-PORTABLE

3 INTERFACES IN ONE • BUDGET FRIENDLY

The WriteProtect™-PORTABLE write-blocker provides secure, read-only, write-blocked access to PCIe, SATA, and USB 3.0 suspect hard drives. Extremely fast performance is powered by a SuperSpeed USB 3.0 host connection to easily manage large capacity hard drives. The WriteProtect-PORTABLE supports 3 interfaces in a single, compact and easy-to-transport device. Designed to work efficiently in the field or in the lab, this affordable write-blocking solution is a must-have for every digital forensic investigator.
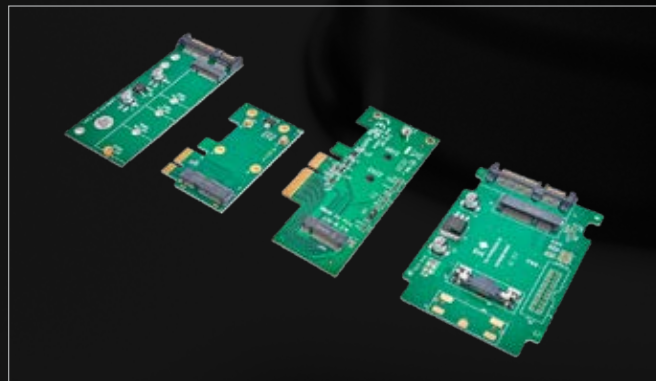
WriteProtect™-PORTABLE

WriteProtect™-PORTABLE
FEATURES

- **Built-in Ports:**
  1 SATA, 1 USB 3.0, 1 PCIe
  Network: 1 Gigabit Ethernet port

- **Drive Interface Support Included:**
  SATA, USB, PCIe

  Optional adapters: M.2 and PCIe adapter kit, 2.5"/3.5" IDE, mSATA, microSATA, eSATA, 1.8" & 1.8" IDE ZIF, Flash media

- **Network Capability:**
  1 Gigabit Ethernet Port used for remote browsing and software updates.

- **Preview Drives:**
  Preview drives connected to WriteProtect using the browser-based user interface.

- **Browser-based User Interface:**
  Use the browser-based user interface to manage all WriteProtect operations including software updates, connect to your network using the WriteProtect's Gigabit Ethernet Port.

- **6 LEDs:**
  Easily monitor functions with 6 LEDs for power, host, device, activity and HPA/DCO detection.

- **HPA/DCO:**
  HPA/DCO detection and capture is easily managed via the WriteProtect's browser-based user interface.

- **Dimensions:**
  6.2" x 4.3" x 2" (157 mm x 110 mm x 51 mm)

ACCESSORIES

- **PCIe adapter kit:**
  Kit for M.2 PCIe, M.2 NVMe, M.2 SATA, mSATA SSD, PCIe and mini-PCIe cards. Includes 1 each: M.2 PCIe, M.2 SATA, mSATA, Mini PCIe.

- **mSATA to SATA adapter**

- **microSATA to SATA adapter**

- **eSATA cable**

- **18" extended SATA cable set**

- **2.5/3.5" IDE to SATA adapter**

- **1.8" ZIF to IDE and 1.8" IDE to SATA adapter**

- **USB Flash Reader:**
  Used for cloning various flash media, including compact flash, SD cards.

- **SATA data & power replacement cable**

PCIe adapter kit

IN THE BOX

- **Power supply & U.S. power cord**
- **1 SATA power & data cable**
- **1 USB 3.0 Type-A Male to Micro-B cable**
- **1 CAT 6 network cable**
- **User's manual on CD-ROM**

WriteProtect™-USB

USB * ECONOMICAL

The WriteProtect™-USB write blocker provides secure, read-only, write-blocked access to USB drives in a single, compact, and easy-to-transport device. Extremely fast performance is powered by a USB 3.0 host connection to easily manage large capacity drives. Designed to work efficiently in the field or in the lab, this low-cost write-blocking solution is a must have for every digital forensic investigator.

WriteProtect™-USB

WriteProtect™-USB
FEATURES

- **Built-in Ports:**
  USB

- **Drive Interface Support Included:**
  USB

- **Network Capability:**
  1 Gigabit Ethernet Port used for remote browsing and software updates.

- **Preview Drives:**
  Preview drives connected to WriteProtect using the browser-based user interface.

- **Browser-based User Interface:**
  Use the browser-based user interface to manage all WriteProtect operations including software updates. Connect to your network using the WriteProtect's Gigabit Ethernet Port.

- **Dimensions:**
  6 3/4" x 3 1/8" x 2" (171.45 mm x 79.38 mm x 50.38 mm)

IN THE BOX

- **Power supply & U.S. power cord**
- **1 6ft USB 3.0 host cable**

HARD DRIVE DUPLICATION

Logicube, the world's leader in hard drive duplication solutions, delivers cost-effective, feature-rich products for IT professionals around the globe. From the simple upgrade of a computer's hard disk drive, to software deployment across the enterprise and in the field, drive replacements or mass production of computer hard drives, we have the disk cloning solution you need.

- Logicube's hard drive duplication solutions attain cloning speeds of up to 29 GB/min
- Provide support for PCIe, NVMe, SAS, SCSI, FireWire, and Thunderbolt drives
- Wipe drives according to NIST 800-88 standards

- Can multi-task and perform parallel imaging
- Provide a variety of cloning methods
- Hash and verify during the cloning task
- Supports all Operating Systems

Whether you need to clone one to 5,000 hard disks these powerful solutions come complete with everything you need to get started. We also offer a complete selection of accessories, adapters and extended length cables to support all your duplication tasks. Logicube's attention to quality, performance & ease of use make it the number one choice of IT departments around the world.

ZXi™-10G

SuperSonix®-NG PCIe

PRODUCT COMPARISON CHART

	EchoPlus™-NG	SuperSonix®-NG PCIe	ZClone™-Xi	ZXi™-10G	SCSI-NG	ZX-Tower™
Maximum number of Master drives	• 1 SATA • 1 USB 3.0 • 1 PCIe Only 1 drive can be used at a time	• 2 SATA/SAS-ready • 1 USB 3.0 • 1 PCIe • 1 FireWire® 800 SAS and FireWire support as an additional option	• 6 SATA/SAS-ready • 3 USB 3.0 All ports can be set as Master, Target, or Both	• 6 SATA/SAS-ready • 6 USB 3.2 Gen 1 (Type-A) • 2 USB 3.2 Gen 2 (Type-A) • 1 USB 3.2 Gen 2x2 (Type-C) • 2 Thunderbolt™4/ USB-C All ports can be set as Master, Target, or Both	1 SCSI	N/A
Maximum number of target drives	• 1 SATA • 1 USB 3.0 • 1 PCIe Only 1 drive can be used at a time	• 2 SATA/SAS-ready • 1 USB 3.0 • 1 PCIe • 1 FireWire® 800 SAS and FireWire support as an additional option	• 6 SATA/SAS-ready • 3 USB 3.0 All ports can be set as Master, Target, or Both	• 6 SATA/SAS-ready • 6 USB 3.2 Gen 1 (Type-A) • 2 USB 3.2 Gen 2 (Type-A) • 1 USB 3.2 Gen 2x2 (Type-C) • 2 Thunderbolt™4/ USB-C All ports can be set as Master, Target, or Both	1 SCSI	• 8 3.5" SATA/SAS • 4 USB 3.0
Cloning Speed	Up to 18 GB/min	Up to 24 GB/min	Exceeding 27 GB/min	Exceeding 29 GB/min	Up to 8 GB/min	Sanitize up to 24 GB/min
Display	3.5" Color touchscreen with stylus	7" Color touchscreen	7" Color touchscreen	7" Color touchscreen	3.5" Color touchscreen with stylus	5" Color touchscreen
Hash & Verification	SHA-1, SHA-256, MD5 *Verification available as an additional option*	SHA-1, SHA-256, MD5 *Verification available as an additional option*	SHA-1, SHA-256, MD5 *Verification available as an additional option*	SHA-1, SHA-256, MD5 *Verification available as an additional option*	SHA-1, SHA-256, MD5 *Verification available as an additional option*	N/A
Ethernet Port	1 Gigabit	1 Gigabit	Two 1 Gigabit	Two 10 GbE, One 2.5 Gigabit	1 Gigabit	Two 1 Gigabit
M.2 PCIe SSD Support (NVMe/AHCI)	Yes *With optional adapter*	Yes *With optional adapter*	Yes *With optional PCIe bridge kit*	Yes. Up to 16 NVMe SSDs. *With optional PCIe expansion module*	No	Yes (NVMe only) *With optional adapter*
Wipe/Sanitize	Yes	Yes	Yes	Yes	Yes, as an additional option	Yes
USB Boot Client	No	Yes *With the purchase of the Network Option*	Yes	Yes	No	No
Task Macro	No	Yes	Yes	Yes	No	Yes
Multi session	No	Yes	Yes	Yes	No	Yes
Multi-Image Master	Yes, *as an additional option*	Yes	Yes	Yes	Yes	N/A
Remote Operation	Yes	Yes	Yes	Yes	Yes	Yes
Mirror Clone Method	Yes	Yes	Yes	Yes	Yes	N/A
Clever Clone Method	Yes	Yes	Yes	Yes	Yes	N/A

EchoPlus™-NG

FAST • PORTABLE • BUDGET-FRIENDLY

This fast, portable and budget-friendly1 to 1 hard drive duplicator supports cloning PCIe M.2, USB 3.0 and SATA hard drives. The EchoPlus™-NG delivers blazing fast hard drive cloning at 18 GB/min.

This portable cloner provides advanced features not seen in your typical entry-level duplicator, making it easy to accomplish all your cloning and wiping tasks including drive testing, software and OS upgrades, back-ups, new PC rollouts and content/application distribution.

EchoPlus™-NG

EchoPlus™-NG
FEATURES

- **Hard Drive Duplication:**
  Clone from 1 master drive to 1 target drive.

- **High-Speed Duplication:**
  Clone at speeds of up to 18 GB/min.

- **Built-in Ports:**
  Master: 1 SATA, 1 USB 3.0, and 1 PCIe
  Target: 1 SATA, 1 USB 3.0, and 1 PCIe
  Network: 1 Gigabit Ethernet port

- **Drive Interface Support Included:**
  SATA, USB, PCIe

  Optional adapters: M.2 and PCIe adapter kit, 2.5"/3.5" IDE, mSATA, microSATA, eSATA, 1.8" & 1.8" IDE ZIF, and Flash media.

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines.

- **Multiple Cloning Methods:**
  Mirror Method – Bit-for-bit copy. Supports all OS including Windows, Linux, and Mac.

  Clever Method – Copies only data areas, skips blank sectors, and scales partitions to target. Supports FAT16/FAT32/NTFS and Linux (ext/ext2/ext3/ext4) file systems.

- **Network Capability:**
  1 Gigabit Ethernet port used for remote operation only.

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors. Bad sectors can be skipped or the cloning task can automatically abort when bad sectors are encountered.

- **Dimensions:**
  6.2" x 4.2" x 2.1" (158 mm x 107 mm x 53.4 mm)
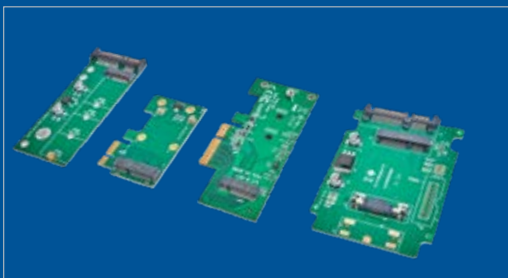
EchoPlus™-NG
OPTIONS

- **Additional Software Options:**

  Hash Verification Option: Clone and verify the exact replication of the master drive in one single process. Features SHA-1, SHA-256 or MD5 algorithms. Hash verification is embedded in the audit trail/log file.

  Multi-Image Master Option: Store multiple images created using EchoPlus-NG in a repository on a SATA drive or on a USB enclosure connected to the EchoPlus-NG and then clone to selected target drive.
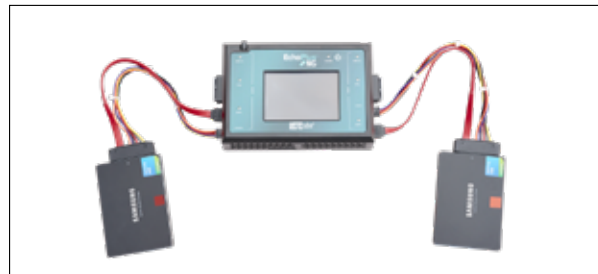
EchoPlus™-NG
ACCESSORIES

- **PCIe adapter kit**
  Kit for M.2 PCIe, M.2 NVMe, mSATA SSD, PCIe, and mini-PCIe cards. Includes 1 each: M.2 PCIe, M.2 SATA, mSATA, and Mini PCIe

- **mSATA to SATA adapter**
- **microSATA to SATA adapter**
- **eSATA cable**
- **18" extended SATA cable set**
- **2.5"/3.5" IDE to SATA adapter**
- **1.8" ZIF to IDE and 1.8" IDE to SATA adapter**
- **USB Flash Reader**
  Used for cloning various flash media, including compact flash, SD cards.
- **SATA data & power replacement cable**

PCIe adapter kit

EchoPlus™-NG
CONNECTIVITY

SSD to SSD

PCIe to PCIe

EchoPlus™-NG
CASE

Soft-sided carrying case, shown open

IN THE BOX

- **Power supply & U.S. power cord**
- **2 SATA power & data cables**
- **1 CAT 6 Network cable**
- **User's Manual on CD-ROM**

SuperSonix®-NG PCIe

UNIQUE • BLAZING FAST • EFFICIENT

The SuperSonix®-NG PCIe hard drive duplicator is a unique portable hard drive cloner on the market that supports PCIe M.2 SSDs including AHCI & NVMe types.

The SuperSonix-NG PCIe delivers blazing fast hard drive cloning at 24 GB/min and efficiently performs hard drive duplicating tasks including PC deployments, OS upgrades, content/application distribution and data back-up tasks. Its compact size makes it ideal for the workbench or mobile on-site applications.

SuperSonix®-NG PCIe

SuperSonix®-NG PCIe
FEATURES

- **Hard Drive Duplication:**
  Clone from up to 4 master drives to up to 4 target drives.

- **High-Speed Duplication:**
  Clone at speeds of up to 24 GB/min.

- **Built-in Ports:**
  Master: 2 SATA/SAS-ready, 1 USB 3.0, 1 PCIe, 1 FireWire® 800. SAS and FireWire support as an additional option.
  Target: 2 SATA/SAS-ready, 1 USB 3.0, 1 PCIe, 1 FireWire 800. SAS and FireWire support as an additional option.
  Network: 1 Gigabit Ethernet port

- **Drive Interface Support included:**
  SATA/SAS, USB, PCIe, FireWire

  SAS and FireWire require the purchase of optional software activation packages.

  Optional adapters: M.2 and PCIe adapter kit, 2.5"/3.5" IDE, mSATA, microSATA, eSATA, 1.8" & 1.8" IDE ZIF, USB 3.0 4-port hub, Flash media.

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process.

- **Multiple Cloning Methods:**
  Mirror Method – Bit-for-bit copy. Supports all OS including Windows, Linux, and Mac.
  Clever Method – Copies only data areas, skips blank sectors, scales partitions to target. Supports FAT16/FAT32/NTFS and Linux (ext/ext2/ext3/ext4) file systems.

- **USB Boot Client:**
  Clone from/to a computer on the same network without removing the drive from the computer.

- **Network Capability:**
  1 Gigabit Ethernet port used for remote operation, network repositories, USB Boot Client, and software updates.

- **Multi-Session Capability:**
  Allows users to perform multiple tasks including cloning, wiping, or hashing concurrently.

- **Task Macro:**
  Allow users to set specific tasks to be performed sequentially. For example, set task 1 to wipe a target drive, then task 2 to clone from a master to that same target.

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors. Bad sectors can be skipped or the cloning task can automatically abort when bad sectors are encountered.

- **Dimensions:**
  7.6" x 5.5" x 2.6" (193 mm x 140 mm x 66 mm)

SuperSonix®-NG PCIe
OPTIONS

- **Additional Software Options:**

   Hash Verification Option: Clone and verify the exact replication of the master drive in one single process. Features SHA-1, SHA-256 or MD5 algorithms. Hash verification is embedded in the audit trail/log file.

   Network Option: Enables cloning images to/from network repositories.

   SAS Option: Enables support for SAS drives.

   FireWire Option: Enables FireWire ports for FireWire enclosures and Mac cloning through FireWire and Target Disk Mode.

SuperSonix®-NG PCIe
ACCESSORIES

- **PCIe adapter kit:**
   Kit for M.2 PCIe, M.2 NVMe, M.2 SATA, mSATA SSD, PCIe and mini-PCIe cards. Includes 1 each: M.2 PCIe, M.2 SATA, mSATA, and Mini PCIe.

- **mSATA to SATA adapter**
- **microSATA to SATA adapter**
- **eSATA cable**
- **18" extended SATA cable set**
- **2.5"/3.5" IDE to SATA adapter**
- **1.8" ZIF to IDE and 1.8" IDE to SATA adapter**
- **USB Flash Reader:**
   Used for cloning various flash media, including compact flash, SD cards.
- **USB3 to SATA adapter:**
   Convert USB 3.0 ports for use with SATA drives.
- **4-port USB 3.0 hub**
- **SATA/SAS data & power replacement cable**

SuperSonix®-NG PCIe
CONNECTIVITY

SSD to SSD

PCIe to PCIe

SuperSonix®-NG PCIe
CASES

Soft-sided carrying case.

Hard case only (foam not included)

IN THE BOX

- **Power supply & U.S. power cord**
- **4 SATA/SAS power & data cables**
- **1 CAT 6 Network cable**
- **4 eSATA 6-pin SATA power (for eSATA drives)**
- **User's Manual on CD-ROM**

ZClone™ Xi (ZXi) ◉

MULTI-TARGET • INDUSTRIAL STRENGTH

The ZClone™ Xi (ZXi) delivers blazing fast hard drive duplication at 24 GB/min with an easy-to-use and intuitive interface. This industrial-strength hard drive cloner provides IT professionals with a solution that efficiently performs hard drive duplicating tasks including PC deployments, OS upgrades, content/application distribution and data back-up tasks.

ZClone™ Xi (ZXi)

ZClone™ Xi (ZXi)
FEATURES

- **Hard Drive Duplication:**
  Clone up to 6 SATA/SAS-ready targets or up to 10 targets with optional 4-port expansion kit.

- **High-Speed Duplication:**
  Clone at speeds exceeding 27 GB/min.

- **Built-in Ports:**
  6 SATA/SAS-ready
  3 USB 3.0
  Network: 2 Gigabit Ethernet ports
  All drive ports can be set as Master, Target, or both.

  > **Optional 4-Port Expansion Kit** available adding 2 SATA/SAS-ready and 2 SATA-only targets. SAS Support as an additional option.

- **Drive Interface Support Included:**
  SATA/SAS, USB
  SAS requires the purchase of an optional software activation package.

  > **Optional adapters:** PCIe Bridge (for M.2 PCIe support), 2.5"/3.5" IDE, mSATA, microSATA, eSATA, 1.8" IDE, 1.8" ZIF, and Flash media.

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines.

- **Multiple Cloning Methods:**
  Mirror Method – Bit-for-bit copy. Supports all OS including Windows, Linux, and Mac.
  Clever Method – Copies only data areas, skips blank sectors, scales partitions to target. Supports FAT16/FAT32/NTFS and Linux (ext/ext2/ext3/ext4) file systems.

- **USB Boot Client:**
  Clone from/to a computer on the same network without removing the drive from the computer.

- **Network Capability:**
  2 Gigabit Ethernet ports used for remote operation, network repositories, USB Boot Client, and software updates.

- **Multi-Session Capability:**
  Allows users to perform multiple tasks including cloning, wiping, or hashing concurrently.

- **Task Macro:**
  Allow users to set specific tasks to be performed sequentially. For example, set task 1 to wipe a target drive then task 2 to clone from a master to that same target.

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors. Bad sectors can be skipped or the cloning task can automatically abort when bad sectors are encountered.

- **Laptop Cloning Version:**
  Customers can purchase a version of the ZXi that is shipped with a factory-installed feature that supports the cloning of 6 laptops (Windows or Mac x86 based) or tablets (Windows x86 based) and 6 hard drives simultaneously without removing hard drives from the laptops. Tablets require a docking station enabled with an Ethernet port.

ZClone™ Xi (ZXi) Laptop

- **Dimensions:**
  3.7" x 19" x 17.2" (94 mm x 483 mm x 437 mm)
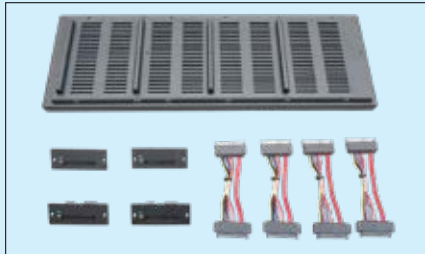
ZClone™ Xi (ZXi)
OPTIONS

- **Additional Hardware Options:**

4-Port Drive Expansion Kit: Provides an additional 2 SATA/SAS and 2 SATA-only drive stations. Includes 4 drive stations, 4 cables, and a drive tray.

PCIe Bridge Kit: USB 3 host connection supports PCIe SSDs (M.2 NVMe and AHCI types). Includes PCIe Bridge plus 1 each M.2 PCIe, M.2 SATA, mSATA, and Mini PCIe.

4-Port Drive Expansion Kit

PCIe Bridge Kit

- **Additional Software Options:**

Hash Verification Option: Clone and verify the exact replication of the master drive in one single process. Features SHA-1, SHA-256, or MD5 algorithms. Hash verification is embedded in the audit trail/log file.

SAS Option: Enables support for SAS drives.

ZClone™ Xi (ZXi)
ACCESSORIES

- **mSATA to SATA adapter**
- **microSATA to SATA adapter**
- **eSATA cable**
- **2.5"/3.5" IDE to SATA adapter**
- **1.8" IDE to SATA adapter**
- **1.8" ZIF to SATA adapter**
- **USB Flash Reader:**
  Used for cloning various flash media, including compact flash, SD cards.
- **SATA/SAS data & power replacement cable**

ZClone™ Xi (ZXi)
CONNECTIVITY

ZClone™ Xi with 4-port Drive Expansion Kit

IN THE BOX

- **Built-in power supply & U.S. power cord**
- **6 SATA/SAS 5" data & power cables**
- **User's Manual on CD-ROM**

ZXi™-10G ⊙

BLAZING FAST • DUAL 10GBE • M.2 NVME OPTION

This powerful, advanced cloning solution includes two 10GbE network connections and support to clone up to 16 M.2 NVMe SSDs with optional PCIe Expansion Modules. Maximize your productivity by utilizing the latest network technology to streamline your workflow and clone directly to or from a network repository or a NAS device. The ZXi™-10G also supports cloning from Thunderbolt™ storage enclosures utilizing two built-in Thunderbolt 4 ports.
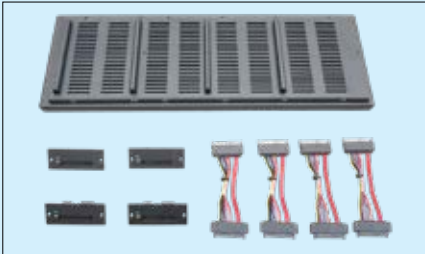

ZXi™-10G

ZXi™-10G
FEATURES

- **High-Speed Duplication:**
  Clone up to 6 SATA/SAS-ready targets or up to 10 targets with optional 4-port expansion kit.

- **High-Speed Duplication:**
  Clone at speeds exceeding 29 GB/min.

- **Built-in Ports:**
  6 SATA/SAS-ready
  6 USB 3.2 Gen 1 (Type-A)
  2 USB 3.2 Gen 2 (Type-A)
  1 USB 3.2 Gen2x2 (Type-C)
  2 Thunderbolt™ 4/USB-C
  4 U.2 or up to 16 M.2 NVMe SSDs
  (with optional NVMe Expansion Module)
  Network: 2 10 GbE ports, 1 2.5 GbE port
  All drive ports can be set as Master, Target, or both.

  > **Optional 4-Port Expansion Kit:** available adding 2 SATA/SAS-ready and 2 SATA-only targets. SAS Support as an additional option.

- **Drive Interface Support Included:**
  SATA/SAS, USB
  SAS requires the purchase of an optional software activation package.

  > **Optional 4-Port Expansion Kit:** available adding 2 SATA/SAS-ready and 2 SATA-only targets. SAS Support as an additional option.

  > **Optional NVMe Expansion Module:** provides support for up to 8 M.2 NVMe SSDs. Up to two NVMe Expansion Modules can be used with the ZXi-10G-Forensic.

- **Drive Interface Support Included:**
  SATA/SAS, USB, Thunderbolt, U.2. SAS requires the purchase of an optional software activation package.

  > **Optional adapters:** NVMe Expansion module, 2.5"/3.5" IDE, mSATA, microSATA, eSATA, 1.8" IDE, 1.8" ZIF, Flash media

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process.

- **Multiple Cloning Methods:**
  Mirror Method – Bit-for-bit copy. Supports all OS including Windows, Linux, and Mac.
  Clever Method – Copies only data areas, skips blank sectors, scales partitions to target. Supports FAT16/ FAT32/NTFS and Linux (ext/ext2/ext3/ext4) file systems.

- **USB Boot Client:**
  Clone from/to a computer on the same network without removing the drive from the computer.

- **Network Capability:**
  2 10 GbE ports and 1 2.5 GbE port used for remote operation, network repositories, USB Boot Client, and software updates. The three network ports allow for a superior configurable security setup.

- **Multi-Session Capability:**
  Allows users to perform multiple tasks including cloning, wiping, or hashing concurrently.

- **Task Macro:**
  Allow users to set specific tasks to be performed sequentially. For example, set task 1 to wipe a target drive, then task 2 to clone from a master to that same target.

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors. Bad sectors can be skipped or the cloning task can automatically abort when bad sectors are encountered.

- **Dimensions:**
  3.7" x 19" x 17.2" (94 mm x 483 mm x 437 mm)

OPTIONS

- **Additional Hardware Options:**

4-Port Drive Expansion Kit: Provides an additional 2 SATA/SAS and 2 SATA-only drive stations. Includes 4 drive stations, 4 cables, and a drive tray.

NVMe Expansion Module: Provides support for up to 8 M.2 NVMe SSDs. Up to two NVMe Expansion Modules can be used with the ZXi-10G. Each module's NVMe connection can be set as Master, Target, or Both.

4-Port Drive Expansion Kit

NVMe Expansion Module

- **Additional Software Options:**

Hash Verification Option: Clone and verify the exact replication of the master drive in one single process. Features SHA-1, SHA-256, or MD5 algorithms. Hash verification is embedded in the audit trail/log file.

SAS Option: Enables support for SAS drives.

ACCESSORIES

- **mSATA to SATA adapter**
- **microSATA to SATA adapter**
- **eSATA cable**
- **2.5"/3.5" IDE to SATA adapter**
- **1.8" IDE to SATA adapter**
- **1.8" ZIF to SATA adapter**
- **USB Flash Reader:**
  Used for cloning various flash media, including compact flash, SD cards.
- **SATA/SAS data & power replacement cable**

ZXi™-10G with 2 NVMe Expansion Modules

IN THE BOX

- **Built-in power supply & U.S. power cord**
- **6 SATA/SAS 5" data & power cables**
- **User's Manual on CD-ROM**

ZX-Tower™ (ZX-T) ◉

SECURE • RELIABLE • EASY

The ZX-Tower™ (ZX-T) wipe-only solution provides secure wiping of hard disk drives and USB enclosures. This reliable solution allows organizations to easily comply with NIST 800-88 guidelines for media sanitization.

ZX-Tower™ (ZX-T)

ZX-Tower™ (ZX-T)
FEATURES

- **Hard Drive Wiping:**
  Wipe up to 8 target hard drives and 4 USB 3.0 enclosures simultaneously.

- **High-Speed Wiping:**
  The ZX-T will sanitize hard drives at speeds exceeding 24 GB/min.

- **Built-in Ports:**
  8 3.5" SATA/SAS, 4 USB 3.0

  Network: 2 Gigabit Ethernet ports

- **Drive Interface Support Included:**
  3.5" SATA/SAS, USB

  Optional adapters: NVMe M.2, SATA M.2, 2.5" SATA, 2.5" SATA/SAS, 2.5"/3.5" IDE, microSATA, eSATA, 1.8" IDE, 1.8" ZIF, and Flash media.

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process.

- **Network Capability:**
  2 Gigabit Ethernet ports used for remote operation and software updates.

- **Multi-Session Capability:**
  Allows users to perform multiple wipe tasks concurrently.

- **Dimensions:**
  17" x 17" x 7.5" (432 mm x 432 mm x 191 mm)

ZX-Tower™ (ZX-T)
ACCESSORIES

- **M.2 NVMe PCIe SSD to USB adapter**

- **USB Flash Reader:**
  Used for cloning various Flash media, including Compact Flash, and SD cards.

- **2.5" to 3.5" SATA drive cartridge adapter:**
  Supports 2.5" SATA drives up to 9mm in height.

- **2.5" SAS cartridge adapter:**
  Supports SAS/SATA drives including drives greater than 9mm. 2.5" SAS cartridge adapter required when using the following optional adapters:

  mSATA

  M.2 SATA

  microSATA

  ZIF 1.8 Pack (includes 1.8" IDE and 1.8" ZIF)

- **ZX-T SATA/SAS Extension Adapter:**
  Tower bay insert with extended cable. ZX-T SATA/SAS Extension Adapter required when using the following optional adapters:

  2.5"/3.5" IDE

  eSATA

IN THE BOX

- **Built-in power supply & U.S. power cord**
- **User's Manual on CD-ROM**

SCSI-NG ◉

CONVENIENT • COMPREHENSIVE

The SCSI-NG offers a small desktop footprint for cloning SCSI hard drives for back-up, drive testing and all your duplication tasks. The unit features a Gigabit Ethernet network port to conveniently use the browser-based interface to manage all SCSI-NG operations.

Comprehensive log reports provide detailed information about each task performed. An optional Wipe feature that complies with NIST 800-88 can securely erase hard drives using a SCSI format command, a custom pass, or a 7 pass DoD specification wipe.

SCSI-NG

SCSI-NG
FEATURES

- **Hard Drive Duplication:**
  Clone from 1 SCSI master to 1 SCSI target drive

- **Duplication Speed:**
  Clone at speeds of up to 8 GB/min

- **Built-in Ports:**
  Master and Target: One SCSI master and one SCSI target

  Network: 1 Gigabit Ethernet port

  Drive Interface Support (included):

  68-pin SCSI

  Optional adapters: 68-to-80 pin SCSI and 68-to-50 pin SCSI

- **Wipe Feature:**
  Secure Erase, DoD wipe, and custom pass settings. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process.

  Requires the purchase of an optional software activation package.

- **Multiple Cloning Methods:**
  Mirror Method – Bit-for-bit copy. Supports all OS including Windows, Linux and Mac.

  Clever Method – Copies only data areas, skips blank sectors, scales partitions to target. Supports FAT16/FAT32/NTFS and Linux (ext/ext2/ext3/ext4) file systems.

- **Network Capability:**
  1 Gigabit Ethernet port used for remote operation, network repositories, and software updates

- **Error Handling:**
  Three cluster size settings provide more control over handling bad sectors. Bad sectors can be skipped or the cloning task can automatically abort when bad sectors are encountered.

- **Dimensions:**
  14.5" x 9.5" x 3.5" (368 mm x 241 mm x 89 mm)

SCSI-NG
OPTIONS

• **Additional Software Options:**

Hash Verification Option: Clone and verify the exact replication of the master drive in one single process. Features SHA-1, SHA-256 or MD5 algorithms. Hash verification is embedded in the audit trail/log file.

Wipe Option: Enables sanitizing/wiping SCSI drives using Secure Erase, DoD wipe, or a custom number of passes. Complies with NIST 800-88 guidelines. User selectable option to verify wipe pass value during the wipe process.
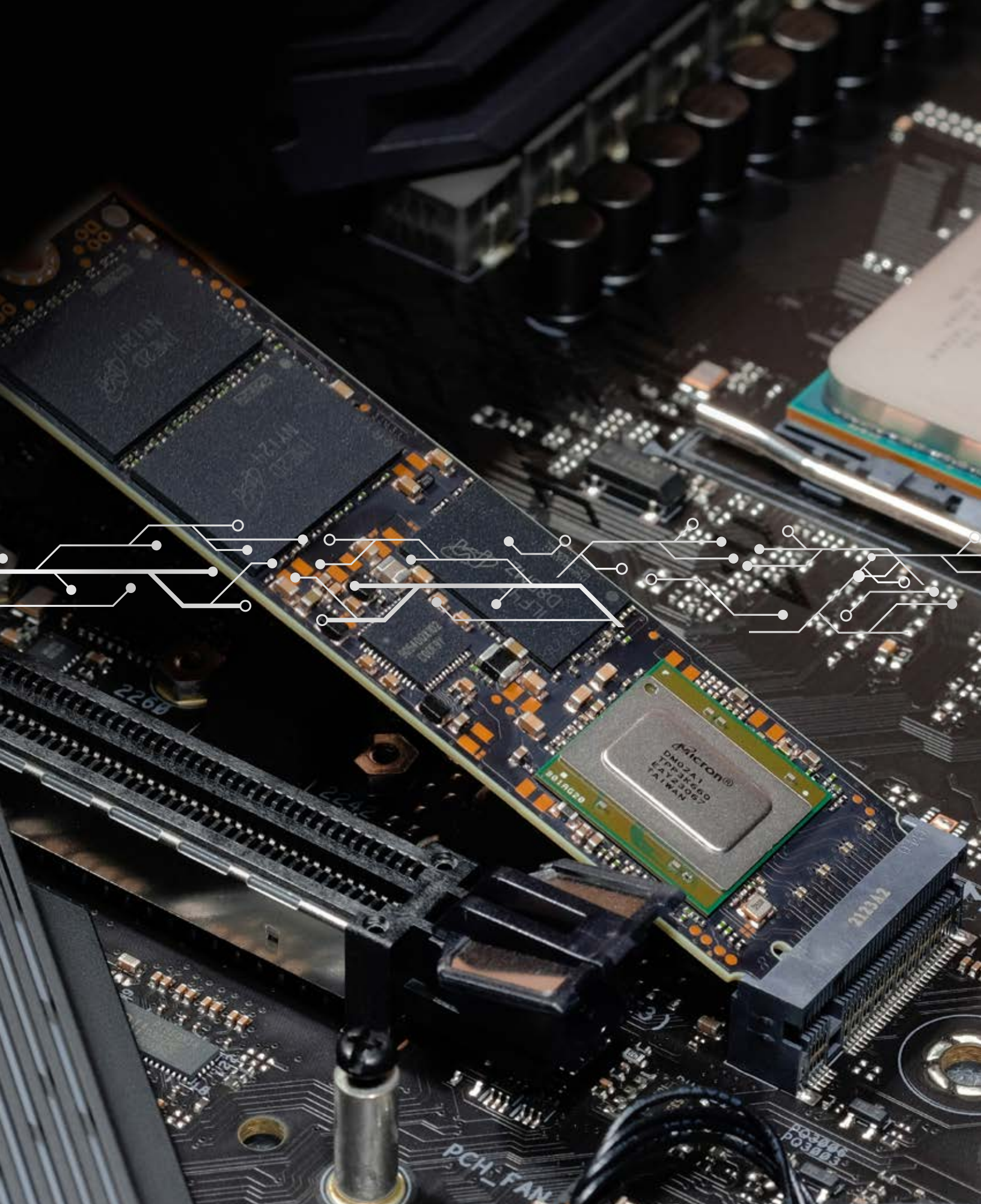
SCSI-NG
ACCESSORIES

• **68-to-80 pin SCSI adapter**

• **68-to-50 pin SCSI adapter**

• **SCSI data & power replacement cable**

IN THE BOX

• **Power supply & power cord**

• **2 68-pin SCSI power cables and data cables**

• **User's Manual on CD-ROM**

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