



**Intelligent
Computer
Solutions**

Make the intelligent choice...

Image MASter™ 4000 PRO

FEATURES:

- 1 Extreme Speed
- 2 Hard Drive Support
- 3 Compact size
- 4 Versatile "Source" Drive Ports
- 5 Cable Free Drive Caddies
- 6 Multiple Interface Ports
- 7 Expandability
- 8 Multiple Modes of Operation
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- 10 USB Duplication
- 11 Linux IQCopy
- 12 On-the-Fly Data Encryption
- 13 Multi-Session

**Format and Duplicate 8 Hard Drives
every two minutes!**

The Image MASter™ 4000PRO hard drive duplicator is the next generation of Fast, Reliable and Versatile IT Hard Drive Duplicators, based on the time proven Image MASter 4000 Product Line.



**Image MASter™
4000 PRO**

www.ics-iq.com

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Format and Duplicate 8 Hard Drives every two minutes!

The Image MASter™ 4000PRO hard drive duplicator is the next generation of Fast, Reliable and Versatile IT Hard Drive Duplicators, based on the time proven results of the Image MASter 4000 Product Line. The unit's versatility allows expanding the unit's capabilities to support drive interfaces, such as Firewire and SCSI, not commonly supported by other manufacturers.

The Image MASter 4000PRO Hard Drive Duplicator is the Ideal solution for the mid-size IT organization looking for all the benefits of an enterprise level Duplicator. The IM4000PRO is designed for Ease of Use with a Compact Footprint. This Versatile Hard Drive duplicator has native support for the high speed duplication of up to eight SAS and SATA drives, and up to four USB drives. In addition, it supports the duplication of IDE*, CF*, uSATA* and eSATA* drives. 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 Image MASter™ 4000 PRO is designed to support today's High Performance drives, featuring advanced SATA-2 Duplication Technology that can Copy and Wipe drives at speeds exceeding 7GB/min. This advanced technology also prepares the IT User with the hardware necessary to take advantage of tomorrow's hard drive speed improvements, having the potential of 18GB/min transfer rates. The IM4000PRO is also configured with a 1Gbit Ethernet port for Network Connectivity support.

The IM4000PRO can also be purchased with Expansion Ready hardware to expand the unit's capabilities. Expansion Ready units support the use of the Optional IM4000PRO Expansion Box. The IM4000PRO Expansion Box adds SCSI and Firewire Drive Interface support including the flexibility to add High Speed 10Gbit Network* interface support using 3rd Party 10Gbit NIC Cards.

* IDE drives supported with Optional IDE Drive and Host Caddy or by Optional Adapters.

* CF drives supported with Optional CF Adapters.

* Micro SATA drives adapters are only supplied with 2.5" Caddy.

* eSATA drives supported using SATA-to-eSATA Cables.

* 10Gbit PCIe NIC Cards are not supplied by ICS.

FEATURES:

1 **Extreme Speed**

The Image MASter™ 4000PRO is designed to support today's High Performance drives, featuring advanced SATA-2 Duplication Technology that can copy and wipe drives at validated speeds of 13GB/min. This advanced technology also prepares the User with the hardware necessary to take advantage of tomorrow's hard drive speed improvements, with the potential of 18GB/min transfer rates.

2 **Hard Drive Support**

Offers native support for SAS, SATA and USB 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 optional IM4000PRO Expansion Box adds support for SCSI and Firewire drives. The Expansion Box can be customized by the End User to add USB 3.0 or Fibre Drive support. (* Optional adapters required)

3 **Compact size**

The unit's Small Footprint design saves work space.

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 Interface Ports**

In addition to the native SATA/SAS ports, the unit is also designed with five USB 2.0 ports, and one Gigabit Ethernet connection that allows duplication of USB devices and storing image files to Network Storage media.

7 **Expandability**

Expansion Ready units support the use of the Optional IM4000PRO Expansion Box. The IM4000PRO Expansion Box (purchased separately) adds SCSI, Firewire and ExpressCard Interface support. Allows connection of up to 2 Firewire Drives and up to 3 SCSI drives and supports connecting a broad range of ExpressCard compliant cards, such as ExpressCard USB 3.0 cards used to connect USB 3.0 mass storage devices. The IT User can customize the Expansion Box by adding 3rd Party PCIe Cards such 10Gbit NIC Cards to add high speed 10Gbit Network interface support.

8 **Multiple Modes of Operation**

- **IQ Copy:** Used to copy only the allocated data of Source drives configured with Windows Based O/S and File Systems, greatly reducing the time required to copy data. IQCopy supports partition scaling allowing duplication of smaller capacity drives to larger capacity drives.
- **Percent 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.
- **MultiMASter:** 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 using the DoD Standard, Secure Erase or User Defined.

9 Network Storage Support

Upload and Download images to and from a shared Network Storage location using the native 1 Gigabit Ethernet interface. The optional IM4000PRO Expansion Box can be customized by the End User to add High Speed 10Gbit Network* interface support using 3rd Party 10Gbit NIC Cards*.

* Third Party 10Gbit NIC Cards are not supplied by ICS.

10 USB Duplication

The unit supports duplicating up to 4 USB Target devices.

11 Linux IQCopy

Provides IQCopy support for the Linux Extended 2 (EXT2), EXT3 and EXT4 File Systems.

12 On-the-Fly Data Encryption

Built-in DiskCypher technology allows the ability to Encrypt a "Source" hard drive during copy operations. The IM4000PRO supports the common AES-256 ECB Encryption method.

13 Multi-Session

Copy multiple Source drives simultaneously or run multiple operations simultaneously. Multi-Session supports duplicating up to 4 Source drives simultaneously. Copy and Sanitize drives at the same time.

TECHNICAL SPECS:

Unit Net Weight: 15lbs (6.8kg).







OVERALL DIMENSIONS:

15.7" x 3.8" x 15.5" (400mm x 100mm x 400mm).

WARRANTY:

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

OPTIONS:

IM4000PRO IT Open Tray Unit (F.GR-4206-000B)	IM4000PRO IT - 2.5" Unit (F.GR-4203-000B)	IM4000PRO IT - 3.5" Unit (F.GR-4200-000B)
<p>The unit ships with the Open Drive Tray and with 8 SAS cables.</p> 	<p>The unit ships with the 2.5" Cable-Free Drive Caddy, including 8 uSATA adapters.</p> 	<p>The unit ships with the 3.5" Cable-Free Drive Caddy.</p> 
<p>IM4000PRO IT Open Tray Expansion Ready Unit (F.GR-4206-900B)</p>	<p>IM4000PRO IT - 2.5" Expansion Ready Unit (F.GR-4203-900B)</p>	<p>IM4000PRO IT - 3.5" Expansion Ready Unit (F.GR-4200-900B)</p>
<p>The unit is internally configured with Expansion Ready Hardware and ships with the Open Drive Tray and with 8 SAS cables.</p>  <p>NOTE: The displayed Expansion Box is <u>not</u> included.</p>	<p>The unit is internally configured with Expansion Ready Hardware and ships with the 2.5" Cable-Free Drive Caddy, including 8 uSATA adapters.</p>  <p>NOTE: The displayed Expansion Box is <u>not</u> included.</p>	<p>The unit is internally configured with Expansion Ready Hardware and ships with the 3.5" Cable-Free Drive Caddy.</p>  <p>NOTE: The displayed Expansion Box is <u>not</u> included.</p>

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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