

Model Name:	HD223UAS	Rev. No.	V1.0
		Issue Date	2012.08.30

**USB 3.0
2.5" SATAIII UASP
External Enclosure**

HD223UAS



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1. Overview

HD223UAS is designed for speed demanders. With its HDD support upgraded to SATAIII HDD/SSD, this device truly utilize USB3.0 super speed. Outstanding design in rigid aluminum with LED indicator gives off quality element to this case.

HD223UAS is specifically designed for Win8 and SSD, by operating UASP devices with SSD under Win8, you experience the maximum and the highest performance ever by simply plug & play; no extra driver required. Never be restricted by the limitation of BOT(Bulk Only Transfer), UASP(USB Attached SCSI Protocol) deploys simultaneous multi-data transmission , outperforms all other HDD enclosures to date.

2. Features

- ✧ Universal support for 7mm and 9.5mm 2.5” SATA I/II/III HDD/SSD
- ✧ Adopt UASP to enhance maximum performance of SSD
- ✧ Backward compatible with USB2.0 and USB1.1
- ✧ SATA I/II/III specification max 6Gbps
- ✧ Support USB Super-Speed(5Gbps), High-Speed(480Mbps) and Full-Speed(12Mbps) Operation
- ✧ OS Supports Win XP/Vista/7/8
- ✧ Blue LED indicator for power & R/W status
- ✧ Compact, slim, rigid Aluminum case, portable and easing to go
- ✧ Dimension (LxWxH) : 120 x 77 x 15.5 mm

3. About UASP(USB attached SCSI protocol)

- ✧ Newly defined USB mass storage class protocol to improve performance

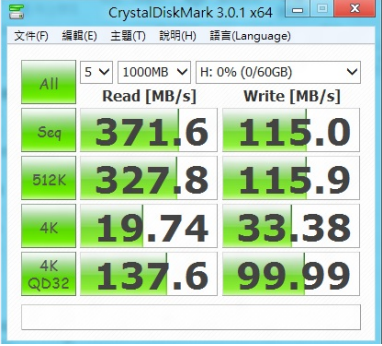
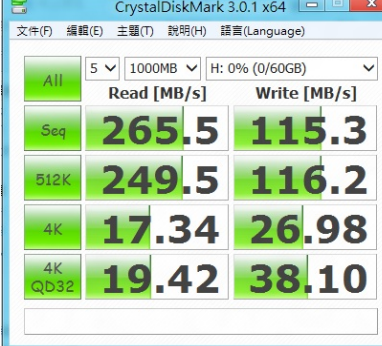

The Purpose of UASP(USB attached SCSI protocol)

- ✧ Enables storage products to operate much faster by utilizing the faster bandwidth now available with the new SuperSpeed (USB 3.0) standard
- ✧ Reduces the protocol overhead of Bulk-Only-Transport (BOT)
- ✧ Supports SATA native command queuing (NCQ)
- ✧ Multiple commands are processed in parallel

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4. Comparison chart between USB3.0 enclosures with embedded UASP & BOT modes.

Windows8

Test	UASP enhanced SATAIII/USB3.0 enclosure	BOT enhanced SATAII/USB3.0 enclosure	BOT enhanced SATAIII/USB3.0 enclosure																																																												
Crucial m4 2.5" SATAIII SSD 64GB	 <table border="1"> <tr><th colspan="2">Read [MB/s]</th><th colspan="2">Write [MB/s]</th></tr> <tr><td>Seq</td><td>371.6</td><td>115.0</td><td></td></tr> <tr><td>512K</td><td>327.8</td><td>115.9</td><td></td></tr> <tr><td>4K</td><td>19.74</td><td>33.38</td><td></td></tr> <tr><td>4K Qb32</td><td>137.6</td><td>99.99</td><td></td></tr> </table>	Read [MB/s]		Write [MB/s]		Seq	371.6	115.0		512K	327.8	115.9		4K	19.74	33.38		4K Qb32	137.6	99.99		 <table border="1"> <tr><th colspan="2">Read [MB/s]</th><th colspan="2">Write [MB/s]</th></tr> <tr><td>Seq</td><td>265.5</td><td>115.3</td><td></td></tr> <tr><td>512K</td><td>249.5</td><td>116.2</td><td></td></tr> <tr><td>4K</td><td>17.34</td><td>26.98</td><td></td></tr> <tr><td>4K Qb32</td><td>19.42</td><td>38.10</td><td></td></tr> </table>	Read [MB/s]		Write [MB/s]		Seq	265.5	115.3		512K	249.5	116.2		4K	17.34	26.98		4K Qb32	19.42	38.10		 <table border="1"> <tr><th colspan="2">Read [MB/s]</th><th colspan="2">Write [MB/s]</th></tr> <tr><td>Seq</td><td>354.4</td><td>115.4</td><td></td></tr> <tr><td>512K</td><td>321.6</td><td>115.4</td><td></td></tr> <tr><td>4K</td><td>16.91</td><td>26.75</td><td></td></tr> <tr><td>4K Qb32</td><td>18.98</td><td>35.47</td><td></td></tr> </table>	Read [MB/s]		Write [MB/s]		Seq	354.4	115.4		512K	321.6	115.4		4K	16.91	26.75		4K Qb32	18.98	35.47	
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5. Package Contents:

HD223UAS is packed in a colored box with hanger hole. The enclosed items of HD223UAS package are listed as below:

1. HD223UAS Unit
2. User Manual
3. Screw Pack
4. USB3.0 A to micro B Cable

5. Agency Approvals

FCC/CE Compliant
RoHS Compliant

6. OS Supports

1. Win-XP
2. Win-Vista
3. Win-7
4. Win-8
5. MAC OS 10.7(Lion) or above
6. Linux Ubuntu 10.4(Kernel 2.6.38) or above

Note: Only Win8 Supports UASP

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7. Packaging

OEM packaging is available upon requests.