

U-STARs TECHNOLOGY CO., LIMITED
USB 3.0 UDP/MUDP (COB / MICRO COB) 16GB
SMI3281 +HYFlash Test Report

USB3.0 UDP MUDP (COB/MICRO COB)
16GB
SMI3281 + HY 3D MLC
Flash Test Report



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1. Test Condition

1.1 System Configuration

Flash Part No	H27TDG8T2D8R-BCG
Flash number	1
Test Date	2020/04/30
Controller	SMI3281
FW Version	MP.VER 19.02.18.21
MP Tool Version	Sm3281ab_s0221(2)
Form Factor	UDP / MUDP (COB / MICRO COB)
SD Spec	3.0
Capacity	16GB
Notes	

1.2 Platform Information

Win 7

Operation System	Windows Win 7	M/B	
CPU	Intel® G3900 2.80GHz	Chipset	Intel 7
DRAM	4.00GB	Card Reader	

Win 10

Operation System	Windows Win 10	M/B	
CPU	Intel®i 7-6500U 2.60GHz	Chipset	Intel 7
DRAM	16 GB	Card Reader	

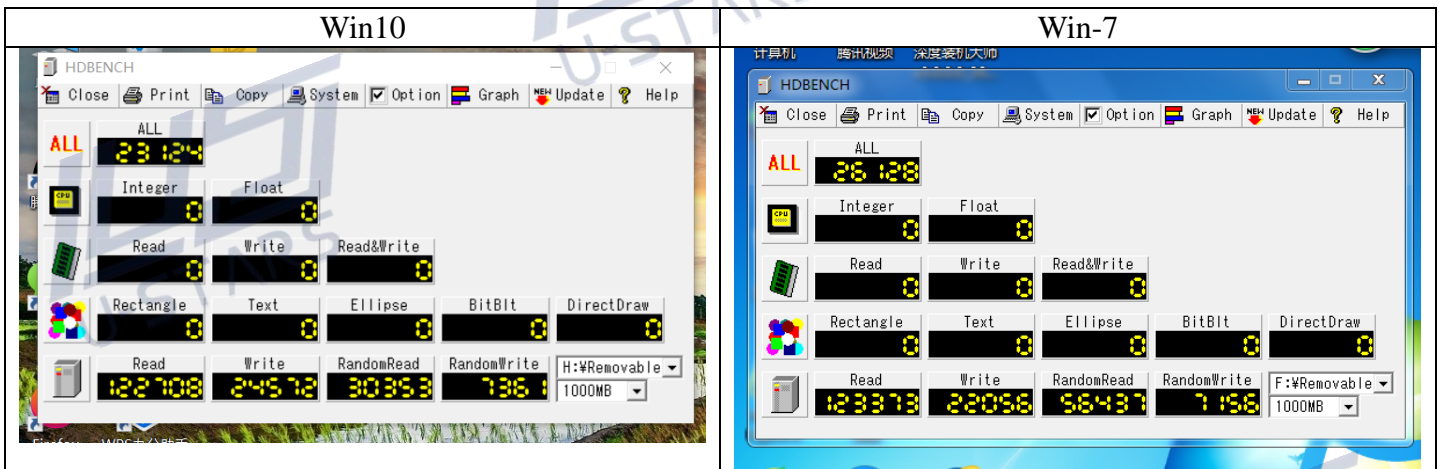
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2. Performance Test

2.1 HD Bench Test Ver.3.4003 (Test size=1000MB)

Note: Test via Windows format (FAT16 of <4GB, FAT32>4GB)

Platform	Host Interface	Seq. Read (KB/Sec)	Seq. Write (KB/Sec)	Ran. Read (KB/Sec)	Ran. Write (KB/Sec)
Win10	USB 3.0	122708	24572	30353	7361
Win7	USB 3.0	123373	22056	56437	7156



Test Result

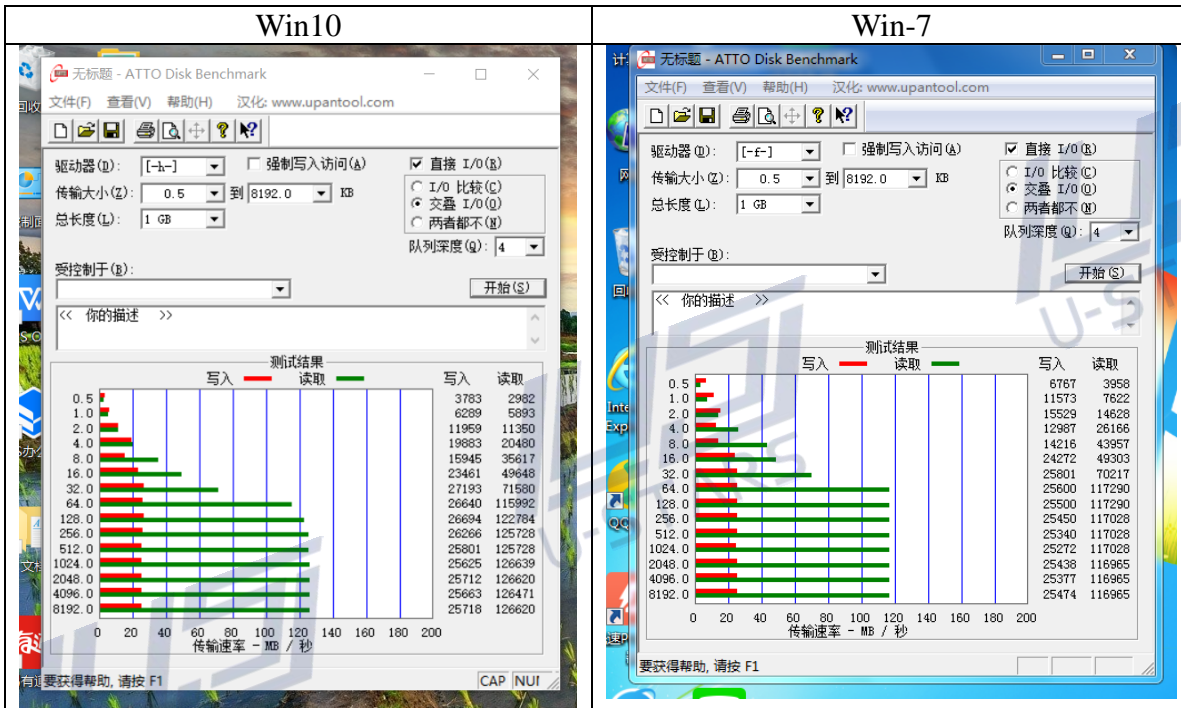
2.2 ATTO Disk Benchmark V2.47 (Total Length = 1GB)

Note: Test via Windows format (FAT16 of <4GB, FAT32>4GB)

Test Result

Platform	Host Interface	Read (KB/Sec)	Write (KB/Sec)
Win10	USB 3.0	126620	25718
Win 7	USB 3.0	116925	25474

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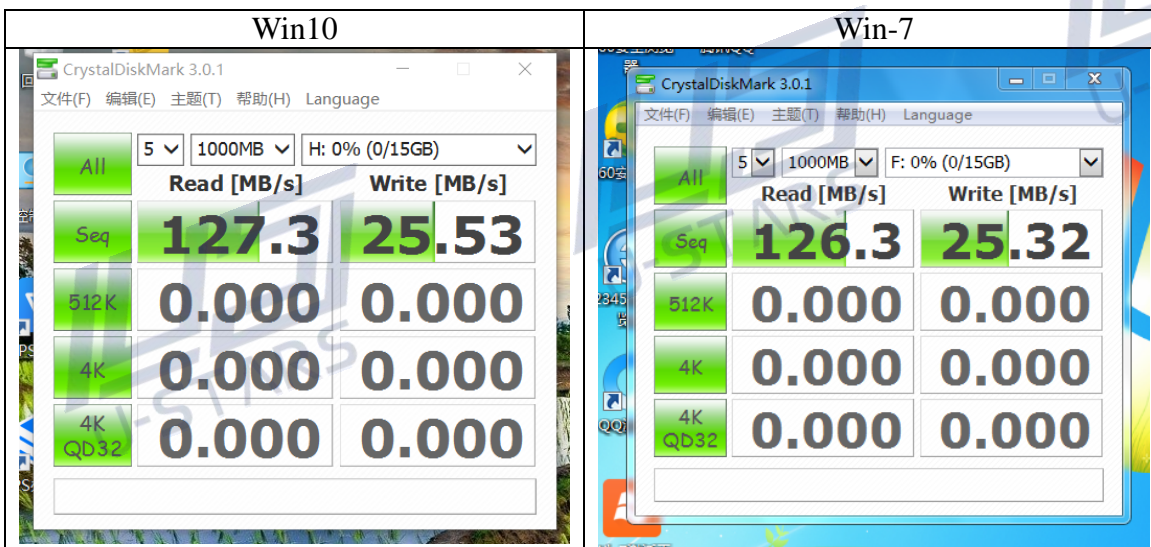


2.3 CrystalDiskMark 3.0.1 (Total Length = 1000MB)

Note: Test via Windows format (FAT16 of <4GB, FAT32>4GB)

Test Result

Platform	Host Interface	Seq. Read (MB/Sec)	Seq. Write (MB/Sec)
Win10	USB 3.0	127.3	25.53
Win 7	USB 3.0	126.3	25.32



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3. Reliability Test

3.1 Burn In Test

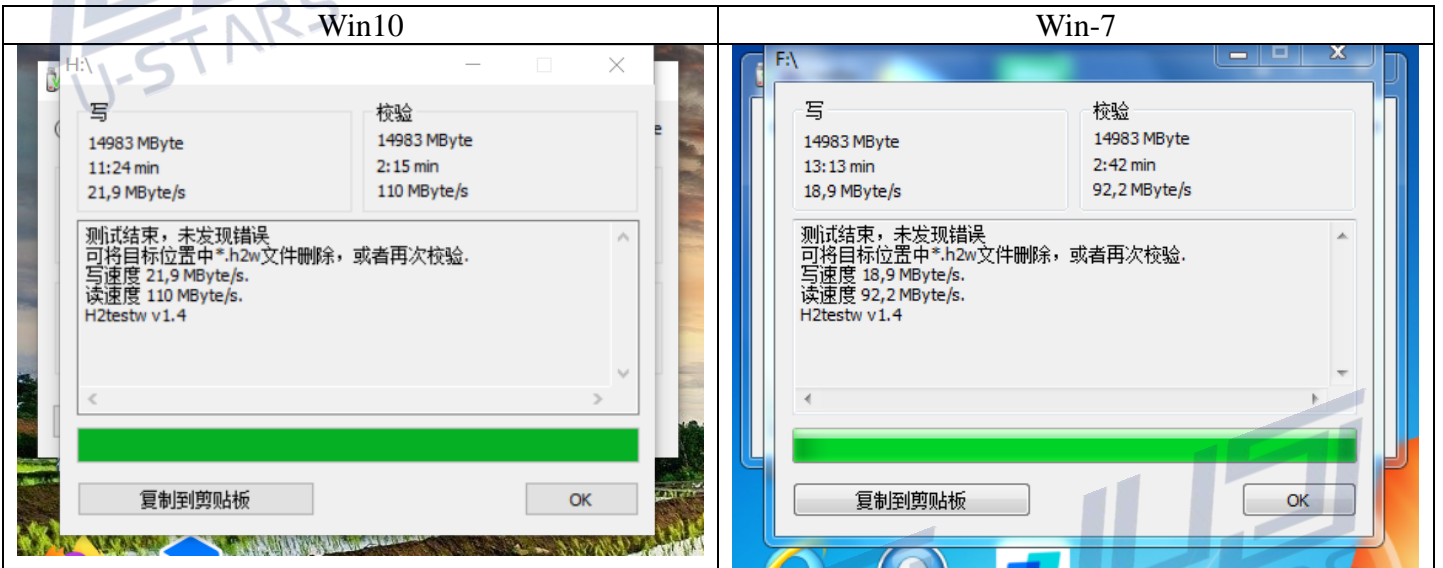
Burn-In Time: **72 HR**

Test Item	Test Result
Burn in V7.1	-

3.2 H2Testw V1.4

Test Result

Platform	Host Interface	Read(MB/s)	Write(MB/s)	Test Result
Win10	USB 3.0	110	21.9	PASS
Win 7	USB 3.0	92.2	18.9	PASS



3.3 H5 Test

Test Result

Machine	Quantity	Test Result
U-Reach	500PCS	PASS

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3.4 Data Retention Test

Test Result

Temperature	Quantity	Test Date	Test Result
25 °C	10PCS	3 Days later	PASS
	10PCS	7 Days later	PASS
100 °C	10PCS	13 Hours	-

