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***USB2640/40i/41/41i/49/49i Benchmark and Media Compatibility Report***  
Collectively referred to in this document as the USB2640  
***V1.076***

*Updated 10/5/2008*

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**Table of Contents**

Performance Benchmarks and Media Compatibility .....	3
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### **Performance Benchmarks and Media Compatibility**

The measurements were performed using the ATTO Windows Disk Benchmark version 2.02 on a Windows XP (SP2) system with an Intel Q964 Express ICH8 south bridge. (Pentium D950, 3.4GHz, 1GB DDR). All benchmarks were measured on new (out of the box) media. Please note that the benchmark performance of flash cards varies widely from manufacturer to manufacturer, and the performance of all manufacturers' cards degrade with use. In order to duplicate the results below, you must use brand new media and test on a similarly configured host.

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
439	Sandisk	32MB	MMC	2158	177
920	Other	64MB	MMC	2066	1741
921	Other	64MB	MMC	1875	1550
161	SimpleTech	128MB	MMC	2267	2125
757	PQI	128MB	MMC	11688	10494
951	Transcend	512MB	MMC	2334	1599
948	Transcend	512MB	MMC	5555	4894
949	Transcend	512MB	MMC	2352	1595
950	Transcend	512MB	MMC	2337	1590
962	Other	640MB	MMC	2106	1519
963	Other	640MB	MMC	1949	1597
960	Other	640MB	MMC	2041	1300
961	Other	640MB	MMC	2041	1512
952	Transcend	1000MB	MMC	2347	1651
953	Transcend	1000MB	MMC	2354	1639
954	Transcend	1000MB	MMC	2341	1665
955	Transcend	1000MB	MMC	2353	1612
956	Transcend	2000MB	MMC	5577	4515
957	Transcend	2000MB	MMC	5587	4544
958	Transcend	2000MB	MMC	5590	4517
806	PQI	128MB	MMC HS	11915	10498
376	Transcend	256MB	MMC HS	12489	11081
373	Transcend	256MB	MMC HS	10713	9616
923	Other	256MB	MMC HS	10861	9727
922	Other	256MB	MMC HS	10931	9712
444	Kingston	512MB	MMC HS	18094	16700
759	A-Data	512MB	MMC HS	18275	16731
371	Transcend	1000MB	MMC HS	10713	10378
1015	Transcend	2000MB	MMC HS	10777	6670
1018	Transcend	2000MB	MMC HS	11413	6932
1016	Transcend	2000MB	MMC HS	11209	7124
884	Transcend	2000MB	MMC HS	9982	5262
1017	Transcend	2000MB	MMC HS	11160	6932
374	Transcend	2000MB	MMC HS	10936	8208
762	A-Data	2000MB	MMC HS	27962	11361
859	A-Data	2000MB	MMC HS	27248	11650
1020	Transcend	4000MB	MMC HS	30643	12427

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
1019	Transcend	4000MB	MMC HS	30434	12246
614	SMI	4000MB	MMC HS	17454	7763
469	Transcend	256MB	MMC Micro	9058	8289
393	Transcend	256MB	MMC MICRO	9058	8108
394	Transcend	512MB	MMC MICRO	9023	8204
978	Transcend	64MB	MMC Mobile	8600	3851
979	Transcend	64MB	MMC Mobile	8597	4167
980	Transcend	64MB	MMC Mobile	8536	4154
981	Transcend	64MB	MMC Mobile	8467	4165
977	Transcend	512MB	MMC Mobile	12258	7106
974	Transcend	512MB	MMC Mobile	12099	8524
975	Transcend	512MB	MMC Mobile	12116	8476
976	Transcend	512MB	MMC Mobile	12116	8836
831	Transcend	1000MB	MMC Mobile	13286	3773
970	Transcend	1000MB	MMC Mobile	12041	3216
971	Transcend	1000MB	MMC Mobile	12086	3651
972	Transcend	1000MB	MMC Mobile	9609	3513
973	Transcend	1000MB	MMC Mobile	9627	3365
510	PQI	1000MB	MMC Mobile	5921	4997
513	Patriot	1000MB	MMC Mobile	5703	5398
446	Kingston	1000MB	MMC Mobile	18724	6784
819	Hama	1000MB	MMC Mobile	5845	5309
427	Transcend	128MB	MMC RS	2248	2141
485	Sandisk	128MB	MMC RS	2383	1770
380	SANDISK	128MB	MMC RS	2380	1945
426	Transcend	256MB	MMC RS	2351	2273
425	Transcend	512MB	MMC RS	2404	2366
397	Transcend	512MB	MMC RS	2405	2327
808	Sony	32MB	MS	1641	845
330	SONY	32MB	MS	1641	1282
1006	Sony	32MB	MS	1628	833
810	Sony	32MB	MS	1628	840
801	SanDisk	32MB	MS	1630	854
38	Lexar	32MB	MS	1640	834
352	LEXAR	64MB	MS	1804	999
1004	Lexar	64MB	MS	1795	931
361	SONY	128MB	MS	5267	1114
617	Sony	128MB	MS	6554	1230
690	Lexar	128MB	MS	1791	926
968	Lexar	256MB	MS	1776	946
967	Lexar	256MB	MS	1804	1005
153	Lexar	256MB	MS	1809	990
596	SONY MAGIC	64MB	MS DUO	5427	904
48	Sony	64MB	MS DUO	2163	868
893	Sony	128MB	MS DUO	4510	1141
894	Sony	128MB	MS DUO	4596	1200
590	Sony	512MB	MS M2 Duo	10234	5687
849	SanDisk	512MB	MS M2 Duo	12624	2463
850	SanDisk	512MB	MS M2 Duo	12729	2535

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
863	SanDisk	1000MB	MS M2 Duo	12452	2298
650	SanDisk	1000MB	MS M2 Duo	12264	2559
936	SanDisk	64MB	MS PRO	10271	2862
937	SanDisk	64MB	MS PRO	10412	2804
938	SanDisk	64MB	MS PRO	10516	2721
939	SanDisk	64MB	MS PRO	6681	2968
197	Sony	256MB	MS PRO	4769	4636
231	SanDisk	512MB	MS PRO	7962	5917
833	Lexar	512MB	MS PRO	7917	6713
834	Lexar	512MB	MS PRO	7895	6668
58	Sony	1000MB	MS PRO	3523	4108
716	Lexar	1000MB	MS PRO	7876	6684
993	SONY MAGIC	32MB	MS PRO DUO	5045	1594
889	SONY MAGIC	256MB	MS PRO DUO	11204	8784
890	SONY MAGIC	256MB	MS PRO DUO	11310	8656
815	SanDisk	512MB	MS PRO DUO	12318	2528
366	SANDISK	512MB	MS PRO DUO	17476	6883
994	SONY MAGIC	1000MB	MS PRO DUO	11160	1440
812	Sony	1000MB	MS PRO DUO	10912	1219
480	Sandisk Extreme III	1000MB	MS Pro Duo	17490	16750
887	SanDisk	1000MB	MS PRO DUO	17483	16636
885	SanDisk	1000MB	MS PRO DUO	16225	3893
888	SanDisk	1000MB	MS PRO DUO	17498	16545
886	SanDisk	1000MB	MS PRO DUO	16488	3975
729	Lexar Platinum II	1000MB	MS PRO DUO	17505	11592
731	Lexar Platinum II	1000MB	MS PRO DUO	17483	11244
919	Lexar	1000MB	MS PRO DUO	14004	6626
1005	Lexar	1000MB	MS PRO DUO	13957	5949
916	Lexar	1000MB	MS PRO DUO	13969	6193
917	Lexar	1000MB	MS PRO DUO	13981	6590
918	Lexar	1000MB	MS PRO DUO	13951	6713
915	SANDISK Ultra II	2000MB	MS PRO DUO	17446	10605
914	SANDISK Ultra II	2000MB	MS PRO DUO	17461	10226
728	Lexar Platinum II	2000MB	MS PRO DUO	13865	6276
813	Lexar	2000MB	MS PRO DUO	13871	6006
737	Sony	1000MB	MS PRO HG	34264	21835
738	Sony	1000MB	MS PRO HG	34596	21783
740	Sony	1000MB	MS PRO HG	34329	21681
720	Sony	1000MB	MS PRO HG	34630	21670
743	Sony	2000MB	MS PRO HG	34329	21917
742	Sony	2000MB	MS PRO HG	34280	22055
988	Lexar	32MB	SD	4194	1093
18	Lexar	32MB	SD	8870	8031
987	Lexar	32MB	SD	5053	1129
185	PNY	64MB	SD	1602	882
423	ADTEC	64MB	SD	9355	3451
986	PNY	128MB	SD	7294	1919
117	PNY	128MB	SD	4767	1403
946	Other	128MB	SD	12163	9327

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
119	Lexar	128MB	SD	3545	1189
294	INFINEON	128MB	SD	6109	1247
839	EDGE	128MB	SD	15797	2877
459	EDGE	128MB	SD	9242	5615
544	EDGE	128MB	SD	9708	8762
414	ADTEC	128MB	SD	7594	6754
842	EDGE	256MB	SD	14349	4622
527	Corsair	256MB	SD	11759	10442
661	Buffalo	256MB	SD	9211	8070
652	Buffalo	256MB	SD	9211	7702
357	Sandisk Ultra II	512MB	SD	10046	8330
363	SANDISK Ultra II	512MB	SD	11013	9134
804	Other	512MB	SD	11165	7591
622	X Digital Media	1000MB	SD	9564	3179
673	Sandisk Extreme III	1000MB	SD	20971	19152
506	PNY	1000MB	SD	14128	5583
515	Patriot	1000MB	SD	20068	10824
514	Patriot	1000MB	SD	20116	10250
989	EDGE	1000MB	SD	9372	8559
561	DaneElec	2000MB	SD	10455	8786
629	Corsair	2000MB	SD	11470	3437
862	A-Data	2000MB	SD	12604	3534
983	PNY		SD HC	14290	8952
941	Transcend	4000MB	SD HC	18009	5999
615	PQI	2000MB	SD HS	18094	14576
429	Transcend	128MB	SD micro	11517	6716
396	Transcend	256MB	SD MICRO	10708	5907
902	SanDisk	512MB	SD micro	10082	4668
903	SanDisk	512MB	SD micro	10054	4213
878	SanDisk	1000MB	SD micro	9800	6103
877	SanDisk	1000MB	SD micro	9765	6647
832	PNY	1000MB	SD micro	18024	6442
891	OCZ	1000MB	SD micro	13000	3386
892	OCZ	1000MB	SD micro	12758	3334
879	SanDisk	2000MB	SD micro	10082	3579
880	SanDisk	2000MB	SD micro	10042	3482
882	SanDisk	6000MB	SD micro	17757	11887
195	SanDisk	32MB	SD mini	1332	939
143	Panasonic	32MB	SD mini	4854	1322
193	SanDisk	64MB	SD mini	1585	862
552	Panasonic	64MB	SD mini	5084	2156
548	Panasonic	64MB	SD mini	4831	1428
549	Panasonic	64MB	SD mini	4831	1388
550	Panasonic	64MB	SD mini	4811	1455
551	Panasonic	64MB	SD mini	4808	1538
553	Panasonic	64MB	SD mini	4810	1527
554	Panasonic	64MB	SD mini	4849	1543
901	SanDisk	256MB	SD mini	15210	7781
900	SanDisk	256MB	SD mini	14626	7483

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
924	Other	256MB	SD mini	11639	9743
925	Other	256MB	SD mini	11645	9720
926	Other	256MB	SD mini	7483	6979
927	Other	256MB	SD mini	7619	7002
837	A-Data	1000MB	SD mini	10250	4984
835	A-Data	1000MB	SD mini	15849	4120
836	A-Data	1000MB	SD mini	16108	4214
838	A-Data	1000MB	SD mini	15701	4132
479	Sandisk	2000MB	SD mini	9892	4628
9	Fuji	64MB	XD	6497	966
846	EDGE	64MB	XD	3134	396
218	Olympus	128MB	XD	6470	981
316	OLYMPUS	128MB	XD	6438	1115
10	Fuji	128MB	XD	6558	989
676	Olympus	256MB	XD	6953	389
217	Olympus	256MB	XD	6470	1126
966	Fuji	256MB	XD	7005	393
805	Fuji	256MB	XD	7070	2052
965	Fuji	256MB	XD	6947	379
618	Olympus	512MB	XD	6961	1219
705	Olympus	512MB	XD	3152	470
338	OLYMPUS	512MB	XD	6955	1217
682	Fuji	512MB	XD	6250	418
595	Fuji	512MB	XD	6505	1795
707	Fuji	512MB	XD	6209	427
848	EDGE	512MB	XD	3116	381
847	EDGE	512MB	XD	3094	481
929	Olympus	1000MB	XD	5793	448
932	Olympus	1000MB	XD	5783	446
856	Fuji	1000MB	XD	6195	413
985	Fuji	1000MB	XD	6225	432
680	Fuji	1000MB	XD	6195	409
679	Fuji	1000MB	XD	6232	403
857	Olympus	2000MB	XD	5749	395
697	Olympus	2000MB	XD	5733	390
934	Olympus	2000MB	XD	5749	453
767	Olympus	2000MB	XD	5341	457