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***USB2240/40i/41/41i/42/42i/44/44i***  
***Benchmark and Media Compatibility Report***  
Collectively referred to in this document as the USB2240  
***V1.068***

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### **USB2240 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	2315	317
920	Solomon	64MB	MMC	2121	1758
921	Solomon	64MB	MMC	1922	1568
910	Transcend	128MB	MMC	5779	5036
913	Transcend	128MB	MMC	2369	2301
912	Transcend	128MB	MMC	5777	5047
161	SimpleTech	128MB	MMC	2305	2206
951	Transcend	512MB	MMC	2395	1606
948	Transcend	512MB	MMC	5807	5218
949	Transcend	512MB	MMC	2388	1622
950	Transcend	512MB	MMC	2388	1617
960	Unknown	640MB	MMC	2108	1315
961	Unknown	640MB	MMC	2091	1528
963	Solomon	640MB	MMC	2036	1619
962	Solomon	640MB	MMC	2048	1536
952	Transcend	1000MB	MMC	2390	1617
953	Transcend	1000MB	MMC	2387	1600
954	Transcend	1000MB	MMC	2378	1651
955	Transcend	1000MB	MMC	2385	1611
956	Transcend	2000MB	MMC	5792	5175
957	Transcend	2000MB	MMC	5765	5114
958	Transcend	2000MB	MMC	5790	5267
541	Phison	4000MB	MMC	20106	10605
806	PQI	128MB	MMC HS	13541	11577
757	PQI	128MB	MMC HS	5753	5370
376	Transcend	256MB	MMC HS	13397	11702
373	Transcend	256MB	MMC HS	11351	10016
922	ATP	256MB	MMC HS	11623	10263
923	ATP	256MB	MMC HS	11361	9056
377	Transcend	512MB	MMC HS	12520	10777
444	Kingston	512MB	MMC HS	20432	16864
860	A-Data	512MB	MMC HS	20909	16905
759	A-Data	512MB	MMC HS	20570	16972
371	Transcend	1000MB	MMC HS	11397	10605
884	Transcend	2000MB	MMC HS	11061	7262
1016	Transcend	2000MB	MMC HS	11387	7169
883	Transcend	2000MB	MMC HS	10749	7245
374	Transcend	2000MB	MMC HS	11761	8838
701	EpMemory	2000MB	MMC HS	32736	13584

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
859	A-Data	2000MB	MMC HS	34161	13013
756	A-Data	2000MB	MMC HS	34239	12041
704	Transcend	4000MB	MMC HS	11892	3962
1020	Transcend	4000MB	MMC HS	30366	12710
703	Transcend	4000MB	MMC HS	12452	4144
1019	Transcend	4000MB	MMC HS	30783	12582
614	SMI	4000MB	MMC HS	18868	7410
393	Transcend	256MB	MMC MICRO	2843	2756
469	Transcend	256MB	MMC Micro	9630	8762
394	Transcend	512MB	MMC MICRO	9514	8648
980	Transcend	64MB	MMC Mobile	8949	4050
979	Transcend	64MB	MMC Mobile	9039	4050
978	Transcend	64MB	MMC Mobile	9029	3792
981	Transcend	64MB	MMC Mobile	8861	4052
977	Transcend	512MB	MMC Mobile	13283	9032
864	PQI	512MB	MMC Mobile	9510	8645
970	Transcend	1000MB	MMC Mobile	10127	3198
831	Transcend	1000MB	MMC Mobile	10267	3668
972	Transcend	1000MB	MMC Mobile	10155	3574
518	SanDisk	1000MB	MMC Mobile	2824	2512
517	SanDisk	1000MB	MMC Mobile	5654	5537
510	PQI	1000MB	MMC Mobile	6025	5756
512	Patriot	1000MB	MMC Mobile	7550	7800
513	Patriot	1000MB	MMC Mobile	5954	5458
446	Kingston	1000MB	MMC Mobile	20454	7016
819	Hama	1000MB	MMC Mobile	5602	5399
616	SanDisk	32MB	MMC RS	2454	1744
427	Transcend	128MB	MMC RS	2280	2145
380	SANDISK	128MB	MMC RS	2444	2011
821	SanDisk	128MB	MMC RS	2454	1987
485	Sandisk	128MB	MMC RS	2442	1879
426	Transcend	256MB	MMC RS	2372	2284
397	Transcend	512MB	MMC RS	2396	2420
425	Transcend	512MB	MMC RS	2438	2367
406	SONY	16MB	MS	1630	1271
808	Sony	32MB	MS	1521	1102
1006	Sony	32MB	MS	1500	857
810	Sony	32MB	MS	1388	949
330	SONY	32MB	MS	1388	952
801	SanDisk	32MB	MS	1388	955
38	Lexar	32MB	MS	1506	855
1004	Lexar	64MB	MS	1483	484
352	LEXAR	64MB	MS	1798	982
359	SONY	128MB	MS	5249	1101
319	SONY	128MB	MS	5231	1042
136	Sony	128MB	MS	5385	1697
617	Sony	128MB	MS	8278	3497
361	SONY	128MB	MS	4274	804
689	Lexar	128MB	MS	1632	829
690	Lexar	128MB	MS	1788	914
968	Lexar	256MB	MS	1632	967

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
166	Lexar	256MB	MS	1638	711
967	Lexar	256MB	MS	1789	960
153	Lexar	256MB	MS	1797	944
275	SanDisk	1000MB	MS	10420	9371
486	Sony	32MB	MS DUO	5167	963
596	SONY MAGIC	64MB	MS DUO	4403	701
48	Sony	64MB	MS DUO	1940	659
43	Sony	64MB	MS DUO	5375	890
894	Sony	128MB	MS DUO	4533	1147
893	Sony	128MB	MS DUO	4559	1176
590	Sony	512MB	MS M2 Duo	10250	5611
849	SanDisk	512MB	MS M2 Duo	12574	2453
850	SanDisk	512MB	MS M2 Duo	12643	2458
650	SanDisk	1000MB	MS M2 Duo	12276	2667
863	SanDisk	1000MB	MS M2 Duo	12458	2282
936	SanDisk	64MB	MS PRO	10292	2876
937	SanDisk	64MB	MS PRO	10377	2803
938	SanDisk	64MB	MS PRO	10522	2714
939	SanDisk	64MB	MS PRO	6636	2910
115	Sony	256MB	MS PRO	4756	4558
197	Sony	256MB	MS PRO	4746	4422
635	SanDisk	512MB	MS PRO	17447	6846
231	SanDisk	512MB	MS PRO	7947	5813
833	Lexar	512MB	MS PRO	7865	6679
834	Lexar	512MB	MS PRO	7836	6592
58	Sony	1000MB	MS PRO	3416	4391
716	Lexar	1000MB	MS PRO	7850	6689
993	SONY MAGIC	32MB	MS PRO DUO	5021	1553
889	SONY MAGIC	256MB	MS PRO DUO	11184	8692
890	SONY MAGIC	256MB	MS PRO DUO	11249	8325
474	Sandisk	256MB	MS Pro Duo	17439	6134
640	SanDisk	256MB	MS PRO DUO	17454	6065
366	SANDISK	512MB	MS PRO DUO	17417	6854
815	SanDisk	512MB	MS PRO DUO	12396	2553
994	SONY MAGIC	1000MB	MS PRO DUO	10662	1473
812	Sony	1000MB	MS PRO DUO	10938	1338
480	Sandisk Extreme III	1000MB	MS Pro Duo	17126	16640
582	Sandisk Extreme III	1000MB	MS PRO DUO	17432	16725
886	SanDisk	1000MB	MS PRO DUO	16432	4100
885	SanDisk	1000MB	MS PRO DUO	16249	4004
887	SanDisk	1000MB	MS PRO DUO	17122	16537
888	SanDisk	1000MB	MS PRO DUO	17418	16704
581	SanDisk	1000MB	MS PRO DUO	17446	5859
732	Lexar Platinum II	1000MB	MS PRO DUO	17454	11199
729	Lexar Platinum II	1000MB	MS PRO DUO	17414	11478
731	Lexar Platinum II	1000MB	MS PRO DUO	17418	11242
918	Lexar	1000MB	MS PRO DUO	13851	6685
919	Lexar	1000MB	MS PRO DUO	13851	6785
1005	Lexar	1000MB	MS PRO DUO	13802	6043
916	Lexar	1000MB	MS PRO DUO	13840	6250
917	Lexar	1000MB	MS PRO DUO	13846	6603

## Benchmark and Media Compatibility Report

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
914	SANDISK Ultra II	2000MB	MS PRO DUO	17439	10147
915	SANDISK Ultra II	2000MB	MS PRO DUO	16797	11037
728	Lexar Platinum II	2000MB	MS PRO DUO	13768	6260
736	Lexar Platinum II	2000MB	MS PRO DUO	13871	5998
813	Lexar	2000MB	MS PRO DUO	13805	6139
720	Sony	1000MB	MS PRO HG	28876	16909
738	Sony	1000MB	MS PRO HG	35960	23138
737	Sony	1000MB	MS PRO HG	35763	22383
743	Sony	2000MB	MS PRO HG	35838	22310
339	SANDISK	32MB	SD	2521	404
18	Lexar	32MB	SD	9249	8478
987	Lexar	32MB	SD	5061	1128
988	Lexar	32MB	SD	4163	1103
412	SANDISK	64MB	SD	1590	1125
185	PNY	64MB	SD	1651	902
423	ADTEC	64MB	SD	9847	3504
946	TwinMOS	128MB	SD	13186	9953
947	TwinMOS	128MB	SD	13352	10010
490	SanDisk	128MB	SD	1753	970
986	PNY	128MB	SD	7262	1931
117	PNY	128MB	SD	5023	1764
119	Lexar	128MB	SD	3625	1558
294	INFINEON	128MB	SD	6372	1246
459	EDGE	128MB	SD	9751	5902
839	EDGE	128MB	SD	16041	2914
544	EDGE	128MB	SD	10663	9516
840	EDGE	128MB	SD	16176	2760
414	ADTEC	128MB	SD	8140	7115
535	Panasonic	256MB	SD	16217	10335
842	EDGE	256MB	SD	18919	5211
527	Corsair	256MB	SD	11792	10407
656	Buffalo	256MB	SD	10279	9007
652	Buffalo	256MB	SD	10232	10209
661	Buffalo	256MB	SD	10285	10524
804	TekQ	512MB	SD	12142	8145
363	SANDISK Ultra II	512MB	SD	11003	9147
357	Sandisk Ultra II	512MB	SD	11078	9448
422	SANDISK	512MB	SD	11120	9030
624	Lexar Platinum II	512MB	SD	13304	11316
625	Lexar Platinum II	512MB	SD	13035	11235
178	Lexar	512MB	SD	8164	7213
622	X Digital Media	1000MB	SD	10472	3875
1089	Verbatim	1000MB	SD	10708	6071
1090	Verbatim	1000MB	SD	10777	6556
560	Toshiba	1000MB	SD	14296	5815
673	Sandisk Extreme III	1000MB	SD	20898	19204
683	Sandisk Extreme III	1000MB	SD	20898	18978
506	PNY	1000MB	SD	14092	5591
514	Patriot	1000MB	SD	20106	10247
515	Patriot	1000MB	SD	20116	10879
989	EDGE	1000MB	SD	9344	8548

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
843	EDGE	1000MB	SD	20825	4930
944	Transcend	2000MB	SD	20744	18901
945	Transcend	2000MB	SD	20749	19145
766	R-Data	2000MB	SD	13780	5847
1012	Eye-Fi	2000MB	SD	15370	1732
561	DaneElec	2000MB	SD	13746	5494
629	Corsair	2000MB	SD	12360	3787
862	A-Data	2000MB	SD	13740	7870
984	PNY		SD HC	16288	10042
983	PNY		SD HC	16328	10377
982	PNY		SD HC	16304	10188
940	Transcend	4000MB	SD HC	20764	11510
941	Transcend	4000MB	SD HC	20657	11296
942	Transcend	4000MB	SD HC	18974	13315
573	SMI	4000MB	SD HC	16649	13166
476	Sandisk	4000MB	SD HC	11130	5552
477	Sandisk	4000MB	SD HC	11120	5587
724	Patriot	16000MB	SD HC	20877	13818
230	Panasonic	512MB	SD HS	20058	18086
362	PANASONIC	512MB	SD HS	20106	18444
828	A-Data	1000MB	SD HS	9653	5185
829	A-Data	1000MB	SD HS	9587	5167
531	A-Data	1000MB	SD HS	20126	13081
615	PQI	2000MB	SD HS	20386	16132
1014	Sandisk Extreme III	16000MB	SD HS	20971	17962
1013	Sandisk Extreme III	16000MB	SD HS	20971	16170
429	Transcend	128MB	SD micro	12101	6430
396	Transcend	256MB	SD MICRO	10772	5970
902	SanDisk	512MB	SD micro	11160	5482
903	SanDisk	512MB	SD micro	11086	5236
442	Kingston	512MB	SD MICRO	10800	4358
877	SanDisk	1000MB	SD micro	11045	8912
878	SanDisk	1000MB	SD micro	11135	8326
832	PNY	1000MB	SD micro	20800	7650
891	OCZ	1000MB	SD micro	15406	4191
892	OCZ	1000MB	SD micro	15053	4151
879	SanDisk	2000MB	SD micro	10970	4031
880	SanDisk	2000MB	SD micro	11184	3839
881	SanDisk	6000MB	SD micro	20825	16923
882	SanDisk	6000MB	SD micro	20862	16459
69	Toshiba	32MB	SD mini	4163	1103
195	SanDisk	32MB	SD mini	1327	939
143	Panasonic	32MB	SD mini	5116	1731
193	SanDisk	64MB	SD mini	1297	838
548	Panasonic	64MB	SD mini	5069	1848
549	Panasonic	64MB	SD mini	5085	1791
550	Panasonic	64MB	SD mini	5066	1892
551	Panasonic	64MB	SD mini	5071	2004
553	Panasonic	64MB	SD mini	5062	1997
554	Panasonic	64MB	SD mini	5118	2015
552	Panasonic	64MB	SD mini	5084	2148



Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
192	PDC	128MB	SD mini	7858	7124
901	SanDisk	256MB	SD mini	17112	9306
900	SanDisk	256MB	SD mini	16912	8908
924	ATP	256MB	SD mini	12719	10488
925	ATP	256MB	SD mini	12596	9913
926	ATP	256MB	SD mini	7957	7319
927	ATP	256MB	SD mini	8162	7475
838	A-Data	1000MB	SD mini	18017	4269
835	A-Data	1000MB	SD mini	18009	4317
836	A-Data	1000MB	SD mini	18318	4592
837	A-Data	1000MB	SD mini	10060	5070
479	Sandisk	2000MB	SD mini	11096	5429
258	Unknown	16MB	SM	7213	1197
260	Unknown	32MB	SM	6088	957
261	Unknown	32MB	SM	6078	833
263	Unknown	32MB	SM	5036	727
593	Memorex	32MB	SM	7197	1101
109	Lexar	32MB	SM	6082	922
415	VIKING	64MB	SM	5977	858
416	VIKING	64MB	SM	6163	1425
417	VIKING	64MB	SM	6117	1583
257	Unknown	64MB	SM	5974	933
604	Unknown	64MB	SM	6167	1470
605	Unknown	64MB	SM	6008	898
250	Unknown	64MB	SM	6016	972
606	Unknown	64MB	SM	5288	1435
269	Unknown	64MB	SM	4955	664
1007	Memorex	64MB	SM	6175	1370
896	CompUSA	64MB	SM	6190	1357
264	Unknown	128MB	SM	7040	1123
284	Unknown	128MB	SM	5972	981
667	Unknown	128MB	SM	6990	1232
668	Unknown	128MB	SM	5925	895
265	Unknown	128MB	SM	5998	937
404	SM	128MB	SM	7052	1281
770	Memorex	128MB	SM	7008	1276
337	OLYMPUS	64MB	XD	6898	1353
9	Fuji	64MB	XD	4602	623
845	EDGE	64MB	XD	2594	390
846	EDGE	64MB	XD	2847	393
316	OLYMPUS	128MB	XD	5561	1268
218	Olympus	128MB	XD	4534	626
10	Fuji	128MB	XD	6477	989
452	OLYMPUS	256MB	XD	3141	492
676	Olympus	256MB	XD	4785	318
217	Olympus	256MB	XD	5466	890
805	Fuji	256MB	XD	6847	1317
966	Fuji	256MB	XD	5855	345
965	Fuji	256MB	XD	6823	374
453	SANDISK	512MB	XD	3058	382
219	Olympus	512MB	XD	6288	1144

## Benchmark and Media Compatibility Report

Media ID	Media Brand	Media Size	Media Format	Average Read (kBps)	Average Write (kBps)
618	Olympus	512MB	XD	5819	957
705	Olympus	512MB	XD	2893	431
682	Fuji	512MB	XD	5315	383
595	Fuji	512MB	XD	6307	1178
707	Fuji	512MB	XD	5577	400
847	EDGE	512MB	XD	2870	406
848	EDGE	512MB	XD	2583	322
455	PNY	1000MB	XD	2538	2149
932	Olympus	1000MB	XD	4973	402
929	Olympus	1000MB	XD	4966	399
930	Olympus	1000MB	XD	4122	368
680	Fuji	1000MB	XD	4719	1895
985	Fuji	1000MB	XD	6136	428
679	Fuji	1000MB	XD	6168	410
856	Fuji	1000MB	XD	5264	374
767	Olympus	2000MB	XD	4928	418
934	Olympus	2000MB	XD	4941	410
674	Olympus	2000MB	XD	6093	367
933	Olympus	2000MB	XD	5643	456
697	Olympus	2000MB	XD	4463	322
857	Olympus	2000MB	XD	4415	319