

Skymedi USB3.0 Controller SK6221 - Performance List

Controller											FW	Performance CDM(1time/1000MB)									
Vender	Process	Flash Code	Part Number	Flash Type	Capacity	Mode	ECC	Channel	Flash Q'ty	Mode		Read	Write	Rnd Read	Rnd Write						
Intel	34nm	SD316	JS29F64G08JCND1	SLC	64Gb	4CE		1CH	x1		0301	45.66	39.42	44.08	2.527						
								1CH	x1	DDR	0301	112.8	88.38	106.6	4.685						
								2CH	x2		0301	88.37	73.16	82.34	2.468						
								2CH	x2	DDR	0301	212.1	127.7	185.8	5.113						
	25nm	L74A	JS29F64G08AAME1	MLC	64Gb	1CE	40bit / 1KBytes	1CH	x1	ONFI DDR	0301	43.6	12.06	42.23	0.943						
											0301	101.4	13.09	95.69	1.293						
								2CH	x2	ONFI DDR	0301	85.79	21.15	80.61	1.298						
											0301	197.2	22.64	177.3	1.569						
			JS29F16B08CAME1		128Gb	2CE	40bit / 1KBytes	1CH	x1	ONFI DDR	0301	44.35	20.35	42.97	1.032						
											0301	114	25.83	106.8	1.555						
								2CH	x2	ONFI DDR	0301	89	41.27	81.7	1.108						
											0301	216.6	50.33	186.3	1.736						
	JS29F32B08JAME1	256Gb	4CE	40bit / 1KBytes	1CH	x1	ONFI DDR	0301	45.74	34.57	43.98	0.671									
								0301	114.1	49.14	106.1	1.223									
					2CH	x2	ONFI DDR	0301	89.42	62.68	82.99	0.689									
								0301	217.4	82.96	189.4	1.232									
20nm	L84A	JS29F64G08AAMF1	MLC	64Gb	1CE	40bit / 1KBytes	1CH	x1		0301	33.76	8.994	33.11	0.797							
							1CH	x2	ONFI DDR	0301	80.25	20.66	74.06	1.036							
							2CH	x2		0301	54.44	16.72	51.58	1.072							
									ONFI DDR	0301	145.2	19.78	137.9	1.174							
25nm	B74A	JS29F64G08AATE1	TLC	64Gb	1CE	60bit / 1KBytes	1CH	x1		0301	29.68	5.312	29.18	0.421							
									0301	50.61	10.2	48.95	0.398								
		JS29F16B08CATE1					1CH	x1		0301	33.79	9.82	32.22	0.349							
									0301	53.28	19.51	50.02	0.454								
Micron	34nm	M62B	MT29F16G08ABABA	SLC	16Gb	1CE	4bit / 512KBytes	1CH	x1		0301	51.76	23.3	50.34	37.94						
										0301	101.4	45.28	96.53	6.41							
			MT29F32G08AFABA					2CH	x2		0301	118.1	80.26	111.4	5.795						
			MT29F64G08AJABA					2CH	x2		0301	117.7	96	111.6	2.691						
	25nm	M72A	MT29F32G08AFACA	SLC	32Gb	2CE	8bit / 512KBytes	1CH	x1		0301	60.99	34.19	57.11	4.985						
											0301	118.1	64.2	104.6	5.621						
								M73A	MT29F64G08AFAAA	SLC	64Gb	2CE	8bit / 512KBytes	1CH	x1		0301	60.43	46.5	56.63	3.218
																	0301	117.9	86.29	104.1	3.598
		MT29F128G08AJAAA	1CH	x1		0301	60.3							49.23	56.53	1.355					
			x2		0301	118	89.93							104.4	1.616						
		L73A	MT29F32G08CBACA	MLC	32Gb	1CE	24bit / 1KBytes	1CH	x1		0301	33.17	6.767	32.5	0.902						
											0301	68.45	12.63	66.32	1.034						
								L74A	MT29F64G08CBAAA	MLC	64Gb	1CE	24bit / 1KBytes	1CH	x1		0301	43.6	12.86	41.8	0.947
																	0301	83.06	23.02	76.74	1.091
		MT29F128G08CEAAA	1CH	x1		0301	45.72							21.5	44.12	1.056					
					0301	89.32	41.42							82.99	1.078						
		MT29F128G08CFAAA	1CH	x1		0301	45.09	21.79	43.39	1.029											
			x2		0301	85.93	41.27	80.57	1.079												
		MT29F64G08CBAAB	1CH	x1	ONFI DDR	0301	101.5	14.25	95.86	1.364											

Samsung	20nm	L84A	MT29F64G08CFAAB	MLC	128Gb	2CE	24bit / 1KBytes	2CH	x2	ONFI DDR	0301	192.6	27.41	162.3	1.518				
			MT29F128G08CFAAB					1CH	x1	ONFI DDR	0301	114.8	25.61	106.3	1.561				
								2CH	x2	ONFI DDR	0301	218	50.43	186.9	1.633				
			MT29F64G08CBABB					1CH	x1	ONFI DDR	0301	80.27	10.28	76.82	1.003				
	25nm	B74A	MT29F64G08EBAAA	TLC	64Gb	1CE	60bit / 1KBytes	2CH	x2	ONFI DDR	0301	130.5	19.72	132	1.169				
								1CH	x1		0301	24.79	5.774	24.48	0.48				
								2CH	x2		0301	42.29	10.74	41.24	0.394				
								1CH	x1		0301	27.43	11.03	26.96	0.415				
			MT29F128G08EFAAA		128Gb	2CE	60bit / 1KBytes	2CH	x2		0301	45.87	20.94	43.54	0.519				
								1CH	x1		0301	27.45	17.68	26.96	0.187				
								2CH	x2		0301	45.5	34.53	43.64	0.171				
			MT29F256G08EJAAA		256Gb	2CE	60bit / 1KBytes	1CH	x1		0301	53.38	6.493	52.37	0.48				
	27nm	-	MT29F64G08EBAAB		64Gb	1CE	60bit / 1KBytes	2CH	x2	ONFI DDR	0301	89.74	12.82	85.41	0.515				
								1CH	x1		0301	53.38	6.493	52.37	0.48				
								2CH	x2		0301	89.74	12.82	85.41	0.515				
								1CH	x1		0301	26.97	9.31	26.45	1.366				
			K9GBG08U0A	MLC	32Gb	1CE	24bit / 1KBytes	2CH	x2		0301	53.29	1.782	51.32	1.718				
								1CH	x1		0301	24.37	14.37	23.78	0.778				
								2CH	x2		0301	48.16	25.9	46.12	0.854				
								1CH	x1		0301	26.74	17.15	26.26	0.617				
	27nm	-	K9HKG08U1A	MLC	128Gb	2CE	24bit / 1KBytes	2CH	x2		0301	53	32.33	51.03	0.656				
								1CH	x1	Toggle	0301	60.58	7.332	60.05	0.893				
								2CH	x2	Toggle	0301	85.9	13.87	73.54	1.099				
								1CH	x1	Toggle	0301	42.78	6.14	42.06	0.789				
			K9ABGD8U0B		32Gb	1CE	60bit / 1KBytes	2CH	x2	Toggle	0301	80.24	9.504	74.53	0.604				
								1CH	x1	Toggle	0301	38.9	8.674	37.94	0.363				
								2CH	x2	Toggle	0301	60.97	17.12	59.06	0.338				
			K9ACGD8U0M	Toggle TLC	64Gb	1CE	60bit / 1KBytes	1CH	x1	Toggle	0301	39.2	9.636	34.53	0.863				
2CH	x2	Toggle	0301					69.22	18.5	65.63	0.923								
K9BDGD8U0M	Toggle TLC	128Gb	1CE					60bit / 1KBytes	1CH	x1	Toggle	0301	39.2	9.636	34.53	0.863			
2CH				x2	Toggle	0301	69.22		18.5	65.63	0.923								
K9CFGD8U1M				Toggle TLC	256Gb	2CE	60bit / 1KBytes		2CH	x2	Toggle	0301	69.22	18.5	65.63	0.923			
1CH	x1	Toggle	0301					39.2	9.636	34.53	0.863								
2CH	x2	Toggle	0301					69.22	18.5	65.63	0.923								
Hynix	32nm	-	H27UBG8T2A	MLC	32Gb	1CE	24bit / 1KBytes	1CH	x1		0301	39.2	9.986	38.28	1.022				
								2CH	x2		0301	77.36	19.5	74.22	1.057				
			H27UCG8U5A		64Gb	2CE	24bit / 1KBytes	1CH	x1		0301	44.79	19.25	44.05	1.104				
								2CH	x2		0301	90.22	36.67	83.69	0.9				
	26nm	-	H27UBG8T2B		32Gb	1CE		1CH	x1		0301	35.61	9.43	34.89	0.862				
								2CH	x2		0301	69.04	18.44	66.38	1.1				
			H27UCG8T2M		64Gb	1CE		1CH	x1		0301	34.73	11.08	34.02	0.871				
								2CH	x2		0301	68.04	19.87	65.96	0.976				
	32nm	-	TH58NVG6D2FTA20	MLC	64Gb	2CE		1CH	x1		0301	35.67	17.72	34.24	1.362				
								2CH	x2		0301	70.07	33.39	64.35	1.535				
			Toshiba		24nm	-	TC58NVG6D2GTA00	MLC	64Gb	1CE		1CH	x1		0301	26.43	9.32	25.9	0.895
												2CH	x2		0301	50.74	18.03	48.68	0.953
TC58NVG5D2HTA00		32Gb		1CE					1CH	x1		0301	31.98	10.15	31.42	1.555			
									2CH	x2		0301	62.85	19.63	61.07	1.772			
TC58NVG6D2HTA00		64Gb		1CE					1CH	x1		0301	38.05	10.78	37.1	1.103			
									2CH	x2		0301	74.04	20.98	70.54	1.119			
TH58NVG6D2HTA20		64Gb		2CE					2CH	x2		0301	43.92	19.76	42.01	1.465			
									1CH	x1	Toggle	0301	42.32	20.68	40.97	0.908			
SanDisk	24nm	-	SDTNPQAHEM	MLC	64Gb	1CE	16bit / 512bytes	2CH	x2		0301	79.86	40.32	74.95	0.979				
								1CH	x1		0301	26.97	11.73	26.49	0.794				
								2CH	x2		0301	52.82	20.34	50.9	1.144				
								1CH	x1		0301	52.82	20.34	50.9	1.144				