TCC Available NAND List V8

MLC Type NAND-Flash Memory List

Vendor	Part Number	NAND Driver Version	ECC (Bit/Byte)	Bus Width (Bit)	Access Time (ns)	CS	Data (Byte)	Spare (Byte)	PpB	Block Size (KB)	Max Bad Block	Total Block	Function	Total Size (MB)
Hynix	H27UAG8T2B	V8.7.16	24/1024	8	25	x1	8192	448	256	2048	25	1024	CR,MP	2048
Hynix	H27UBG8T2A	V8.0.0	24/1024	8	25	x1	8192	448	256	2048	25	2048	CR,MP	4096
Samsung	K9GAG08U0E	V8.34.51	24/1024	8	30	x1	8192	436	128	1024	58	2076	CR,CP	2076
Samsung	K9GBG08U0A[1]	V8.28.42	24/1024	8	25	x1	8192	640	128	1024	116	4152	CR,CP,MP,RAND	4152
Samsung	K9LCG08U0A[1]	V8.34.51	24/1024	8	25	x1	8192	640	128	1024	116	8304	CR,CP,MP,RAND	8304
Toshiba	TC58NVG4D2HTA00	V8.34.51	24/1024	8	20	x1	8192	640	128	1024	58	2056	CR,CP,RAND	2056
Toshiba	TC58NVG5D2HTA00	V8.34.51	24/1024	8	20	x1	8192	640	128	1024	80	4116	CR,CP,MP,RAND	4116
Toshiba	THGVR1G5D1HTA00	V8.51.69	embeded	8	30	x1	8192	32	128	1024	90	4116	CR,CP,MP	4116
Toshiba	TC58NVG6D2GTA00	V8.34.51	24/1024	8	25	x1	8192	640	256	2048	128	4124	CR,CP,MP,RAND	8248
Toshiba	THGVR1G6D1GTA00	V8.51.69	embeded	8	30	x1	8192	32	256	2048	138	4124	CR,CP,MP	8248
Micron	MT29F32G08CBACA	V8.34.51	24/1024	8	25	x1	4096	224	256	1024	100	4096	CR,CP,MP	4096
Micron	MT29F64G08CBAAA	V8.34.51	24/1024	8	25	x1	8192	448	256	2048	100	4096	CR,CP,MP	8192
Micron	MT29F64G08CBABA[2]	V8.56.81	40/1024	8	25	x1	8192	744	256	2048	100	4096	CR,CP,MP,RR	8192
Hynix	H27UBG8T2B	V8.66.104	24/1024	8	20	x1	8192	640	256	2048	48	2048	CR,CP,MP,RAND,RR	4096
Samsung	K9GAG08U0F[1]	V8.64.99	24/1024	8	25	x1	8192	512	128	1024	58	2076	CR,CP,MP,RAND,RR	2048
Samsung	K9GBG08U0B[1]	V8.75.115	40/1024	8	25	x1	8192	1024	128	1024	102	4096	CR,CP,MP,RAND,RR	4096
Micron	MT29F16G08CBACA	V8.66.103	24/1024	8	25	x1	4096	224	256	1024	50	2048	CR, CP, MP	2048
Hynix	H27UCG8U5ATR	V8.74.113	24/1024	8	25	x2	8192	448	256	2048	50	2048	CR, MP	8192
Micron	MT29F32G08CBADA[2]	V8.77.121	40/1024	8	25	x1	8192	744	256	2048	74	2128	CR,CP,MP,RR	4096
Micron	MT29F256G08CJAAA	V8.80.131	24/1024	8	25	x2	8192	448	256	2048	200	16384	CR,CP,MP	32768
Toshiba	TC58TEG5DCJTA00	V8.81.132	40/1024	8	20	x1	16384	1280	256	4096	59	1024	CR.CP	4096
Samsung	K9LCG08U0B[1]	V8.81.133	40/1024	8	25	x1	8192	1024	128	2048	204	4096	CR,CP,MP,RAND,RR	8192
Toshiba	TH58TEG7DCJ	V8.85.143	40/1024	8	25	x2	16384	1280	256	4096	148	4184	CP,CR, RAND	16384
Hynix	H27UCG8T2A	V8.86.145	40/1024	8	20	x1	8192	640	256	2048	120	4180	CP,CR,MP,RAND,RR	8192
Hynix	H27UBG8T2C	V8.94.156	40/1024	8	20	x1	8192	630	256	2048	68	2092	CP,CR,MP,RAND,RR	4096

1) Pin is not 100% compatible with normal NAND.
2) TCC8920/8923/8925 support these NAND with 24bit/512B ECC condition for 40bit/1024B ECC. Please contact to NAND manufacturer for detailed information.

Depending on CHIP

Product		NAND Driver Version	CHIP		
Vendor	Part Number		TCC892X	TCC8925S	TCC8930 / TCC8935
Hynix	H27UAG8T2B	V8.7.16	O	O	O
Hynix	H27UBG8T2A	V8.0.0	O	O	O
Samsung	K9GAG08U0E	V8.34.51	O	O	O
Samsung	K9GBG08U0A[1]	V8.28.42	O	O	O
Samsung	K9LCG08U0A[1]	V8.34.51	O	O	O
Toshiba	TC58NVG4D2HTA00	V8.34.51	O	O	O
Toshiba	TC58NVG5D2HTA00	V8.34.51	O	O	O
Toshiba	THGVR1G5D1HTA00	V8.51.69	O	O	O
Toshiba	TC58NVG6D2GTA00	V8.34.51	O	O	O
Toshiba	THGVR1G6D1GTA00	V8.51.69	O	O	O
Micron	MT29F32G08CBACA	V8.34.51	O	O	O
Micron	MT29F64G08CBAAA	V8.34.51	O	O	O
Micron	MT29F64G08CBABA[2]	V8.56.81	O	O	O
Hynix	H27UBG8T2B	V8.66.104	O	O	O
Samsung	K9GAG08U0F[1]	V8.64.99	O	O	O
Samsung	K9GBG08U0B[1]	V8.75.115	O	O	O
Micron	MT29F16G08CBACA	V8.66.103	O	O	O
Micron	MT29F256G08CJAAA	V8.80.131	O	O	O
Hynix	H27UCG8U5ATR	V8.74.113	O	O	O
Hynix	H27UCG8T2A	V8.86.145	X	O	O
Hynix	H27UBG8T2C	V8.94.156	X	O	O
Toshiba	TC58TEG5DCJTA00	V8.81.132	X	O	O

SLC Type NAND-Flash Memory List

Vendor	Part Number	NAND Driver Version	ECC (Bit/Byte)	Bus Width (Bit)	Access Time (ns)	CS	Data (Byte)	Spare (Byte)	PpB	Block Size (KB)	Max Bad Block	Total Block	Function	Total Size (MB)
Hynix	H27U1G8F2B[1]	V8.5.8	1/528	8	25	x1	2048	64	64	128	20	1024	CR	128
Samsung	K9F1G08U0D[1]	V8.18.26	1/528	8	25	x1	2048	64	64	128	20	1024	-	128
Spansion	S34ML01G1[1]	V8.56.82	1/528	8	25	x1	2048	64	64	128	20	1024	CR	128
Hynix	H27U2G8F2C[1]	V8.5.9	1/528	8	25	x1	2048	64	64	128	40	2048	CR,MP	256
Samsung	K9F2G08U0C[1]	V8.34.51	1/528	8	25	x1	2048	64	64	128	40	2048	-	256
Spansion	S34ML02G1[1]	V8.56.82	1/528	8	25	x1	2048	64	64	128	40	2048	CR,CP,MP	256
Spansion	S34ML04G1[1]	V8.56.82	1/528	8	25	x1	2048	64	64	128	80	4096	CR,CP,MP	512
Toshiba	TC58NVG3S0FTAI0[1]	V8.34.51	4/512	8	25	x1	4096	232	64	256	80	4096	CR,CP,MP	1024
Toshiba	TH58NVG4S0FTAK0	V8.34.51	4/512	8	25	x2	4096	232	64	256	160	8192	CR,CP,MP	2048
Samsung	K9GAG08U0M	V8.37.55	4/512	8	25	x1	4096	128	128	512	100	4096	MP	2048
Samsung	K9F4G08U0D[1]	V8.61.89	4/512	8	25	x1	2048	64	64	128	80	4096	MP	512
Fidelix	FMND1G08U3A[1]	V8.73.111	1/512	8	25	x1	2048	64	64	128	20	1024	CP	128
Macronix	MX30LF1G08AA[1]	V8.76.116	1/512	8	30	x1	2048	64	64	128	20	1024	CP	128
Micron	MT29F8G08ABABA[1]	V8.77.120	4/512	8	25	x1	4096	224	128	512	40	2048	CR,CP,MP	1024
Toshiba	TC58NVG1S3HTAI0[1]	V8.82.134	8/512	8	25	x1	2048	128	64	128	40	2048	CR,CP,MP	256
EON	EN27LN1G08[1]	V8.84.141	1/512	8	25	x1	2048	64	64	128	20	1024	CP	128
ESMT	F59L1G81A[1]	V8.84.141	1/512	8	25	x1	2048	64	64	128	20	1024	CP	128
Toshiba	TC58NVG0S3HTAI0[1]	V8.85.144	8/512	8	25	x1	2048	128	64	128	20	1024	CR,CP	128
Toshiba	TC58NVG1S3ETAI0[1]	V8.85.144	1/512	8	25	x1	2048	64	64	128	40	2048	CR,CP,MP	256
ESMT	F59L2G81A	V8.86.146	4/512	8	25	x1	2048	64	64	128	40	2048	CR,CP,MP	256
Micron	MT29F4G08ABADA	V8.93.155	4/512	8	20	x1	2048	64	64	128	80	4096	CR,CP,MP	512
Samsung	K9F4G08U0E	TBD (~2014.01.15)	4/512	8	25	x1	2048	64	64	128	80	4096	MP	512

1) Android ICS doesn't support nand whose size is less than 2GB.

Terminology

TERM		Meaning
PpB		Pages per Block
Function	CP	Cache Program
	MP	Multiplane Program
	IL	Interleave
	EIL	External Interleave
	RAND	S/W Randomizer
	RR	Read Retry

Revision History

Date	Version	Description
2012-02-03	1.00	First Release
2012-03-09	1.01	Update Support NAND (H27U1G8F2B,H27U2G8F2C)
2012-04-02	1.02	Update Support NAND (H27UAG8T2B)
2012-05-10	1.03	Update Support NAND (K9F1G08U0D)
2012-08-22	1.04	Update Support NAND (TC58NVG3S0F, TH58NVG4S0F, TC58NVG4D2H, TC58NVG5D2H, TC58NVG6D2G, K9F2G08U0C, K9GAG08U0E, K9GBG08U0A, K9LCG08U0A, MT29F32G08CBACA, MT29F64G08CBAAA)
2012-10-09	1.05	Update Support NAND (K9GAG08U0M, THGVR1G5D1HTA00, THGVR1G6D1GTA00)
2012-11-06	1.06	Update Support NAND (S34ML01G1,S34ML02G1,S34ML04G1,MT29F64G08CBABA)
2013-02-04	1.07	Update Support NAND (K9F4G08U0D, K9GAG08U0F, MT29F16G08CBACA, H27UBG8T2B)
2013-05-21	1.08	Update Support NAND (MT29F256G08CJAAA)
2013-07-26	1.09	Update Support NAND (TH58TEG7DCJ)
2013-08-20	1.10	Update Support NAND (H27UCG8T2A)
2013-10-23	1.11	Update Support NAND (H27UBG8T2C, MT29F4G08ABADA)

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