

**IS902
NAND Flash Support List**

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Innstor Technology Corporation

IS902 NAND Flash Support List

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1. Revision History

Date	Revision	Description
Aug 5 2010	1.0	Initial release.
Aug 26 2010	1.1	Add field of 2 planes verified on Support List. Add Intel JS29F32G08AAME1.
Sep 24 2010	1.2	Add Intel JS29F64G08JCND1. Fix CE value of PF29F32G16NCND1 from 1 to 2.
Nov 4 2010	1.3	Change layout : <ul style="list-style-type: none"> - Removed field "1 plane and 2 planes of verified". - Add field "Toggle/DDR Mode Support" and "MP Tool Test". Fix Design Code of JS29F64G08JCND1 from SD38S to SD316. Remove Samsung K9NCG08U5M. Add the following Part Number : <ul style="list-style-type: none"> - Intel PF29F08G08LCNC1, PF29F16G16MCNC1, PF29F32G16NCNC1, JS29F16B08HCND1, JS29F32G08AAMDD, JS29F64G08CAMDD and JS29F16B08JAMDD - Micron MT29F16G08ABCBB, MT29F32G08AECBB, MT29F32G08AFCBB, MT29F64G08AJCBB, MT29F64G08AKCBB, MT29F32G08CBABB, MT29F32G08CBCBB, MT29F64G08CFABB, MT29F64G08CECBB, MT29F128G08CJABB, MT29F128G08CKCBB, MT29F128G08CMCBB, MT29F256G08CUCBB, MT29E64G08CECBB, MT29E128G08CKCBB, MT29E128G08CMCBB, MT29E256G08CUCBB, MT29F32G08ABAAA, MT29F64G08AFAAA, MT29F128G08AJAAA, MT29F128G08AKAAA, MT29F128G08AMAAA, MT29F256G08AUAAA, MT29F32G08ABCAB, MT29F64G08AECAB, MT29F128G08AKCAB, MT29F128G08AMCAB, MT29F256G08AUCAB, MT29F16G08CBACA, MT29F32G08CFACA, MT29F64G08CECCB, MT29F64G08CFACB, MT29F64G08CBCAB, MT29F128G08CECAB, MT29F256G08CKCAB, MT29F256G08CMCAB and MT29F512G08CUCAB - Samsung K9KAG08U0M, K9WBG08U1M - Hynix H27UBG8T2M, H27UCG8UDM, H27UDG8VEM, H27UAG8T2A, H27UAG8T2B, H27UBG8T2A, H27UCG8U5A, H27UCG8UDA, H27UDG8V5A, H27UDG8VFA and H27UDG8VEA

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Date	Revision	Description
Nov 18 2010	1.4	<p>Add field of CH on Support List.</p> <p>Change value of DB Support to DB Version.</p> <p>Add the following Part Number on IS902 NAND Flash Support List :</p> <ul style="list-style-type: none">- Samsung K9GBG08U0A, K9LCG08U1A, K9HDG08U5A, K9LCG08U0A, K9HDG08U1A, K9GBGD8U0A and K9LCGD8U0A- Hynix H27UEG8YEA <p>Add Recommended Flash List for 2CH layout PCB.</p>
Dec 20 2010	1.5	<p>Add the following Part Number on IS902 NAND Flash Support List :</p> <ul style="list-style-type: none">- Micron MT29F32G08MAAA, MT29F128G08TAA, MT29F32G08CBAAA, MT29F64G08CFAAA, MT29F128G08CJAAA, MT29F64G08CEAAA, MT29F128G08CKAAA, MT29F128G08CMAAA- Samsung K9KAG08U0M, K9WBG08U1M, K9NCG08U5M, K9LBG08U0D, K9HCG08U1D, K9MDG08U5D, K9PDG08U5D, K9PFG08U5M <p>Add the following Part Number on Recommended Flash List for 2CH layout PCB :</p> <ul style="list-style-type: none">- Samsung K9PDG08U5D, K9PFG08U5M

2. IS902 NAND Flash Support List

Table 1 : IS902 NAND Flash Support List

Vendor	Process	Design Code	Part Number	CE	CH	Toggle/DDR Mode Support	DB Support	MP Tool Test
Intel	50nm	SD58	JS29F08G08AANC1	1	1		V3.00	
			JS29F16G08CANC1	2	1		V3.00	V
			JS29F32G08FANC1	2	1		V3.00	V
		SQ58	PF29F08G08LCNC1	1	1	V	V3.00	
			PF29F16G16MCNC1	2	2	V	V3.00	
			PF29F32G16NCNC1	2	2	V	V3.00	V
	34nm	SD316	JS29F16G08AAND2	1	1		V3.00	V
			JS29F32G08CAND2	2	1		V3.00	V
			JS29F64G08JCND1	4	1	V	V3.00	V
			JS29F64G08JAND2	4	1		V3.00	V
			JS29F16B08HCND1	4	1	V	V3.00	
		SD38S	PF29F32G16NCND1	2	2	V	V3.00	V
		L63B	JS29F32G08AAMDA	1	1		V3.00	
			JS29F64G08CAMDA	2	1		V3.00	
			JS29F16B08JAMDA	4	1		V3.00	
			JS29F16G08AAMDB	1	1		V3.00	V
			JS29F32G08AAMDB	1	1		V3.00	V
			JS29F64G08CAMDB	2	1		V3.00	V
			JS29F16B08JAMDB	4	1		V3.00	V
			JS29F32G08AAMDD	1	1	V	V3.00	
			JS29F64G08CAMDD	2	1	V	V3.00	
			JS29F16B08JAMDD	4	1	V	V3.00	
	25nm	L73A	JS29F32G08AAME1	1	1		V3.00	V
		L74A	JS29F64G08AAME1	1	1		V3.00	V
			JS29F16B08CAME1	2	1		V3.00	V
			JS29F32B08JAME1	4	1		V3.00	V
Micron	34nm	M62B	MT29F16G08ABABA	1	1		V3.00	V
			MT29F32G08AEABA	2	2		V3.00	
			MT29F32G08AFABA	2	1		V3.00	V
			MT29F64G08AJABA	2	1		V3.00	V
			MT29F64G08AKABA	2	2		V3.00	

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Table 1 : IS902 NAND Flash Support List (Continued)

Vendor	Process	Design Code	Part Number	CE	CH	Toggle/DDR Mode Support	DB Support	MP Tool Test
Micron	34nm	M62B	MT29F128G08AUABA	4	2		V3.00	
			MT29F16G08ABCB	1	1	V	V3.00	
			MT29F32G08AECBB	2	2	V	V3.00	
			MT29F32G08AFCBB	2	1	V	V3.00	
			MT29F64G08AJCBB	2	1	V	V3.00	
			MT29F64G08AKCBB	2	2	V	V3.00	
		L63A	MT29F32G08MAA	1	1		V3.02.00	
			MT29F128G08TAA	2	1		V3.02.00	
			MT29F32G08CBAAA	1	1		V3.02.00	
			MT29F64G08CFAAA	2	1		V3.02.00	V
			MT29F128G08CJAAA	2	1		V3.02.00	
			MT29F64G08CEAAA	2	2		V3.02.00	
			MT29F128G08CKAAA	2	2		V3.02.00	
			MT29F128G08CMAAA	4	2		V3.02.00	V
		L63B	MT29F32G08CBABA	1	1		V3.00	V
			MT29F64G08CEABA	2	2		V3.00	
			MT29F64G08CFABA	2	1		V3.00	V
			MT29F128G08CJABA	2	1		V3.00	V
			MT29F128G08CKABA	2	2		V3.00	
			MT29F128G08CMABA	4	2		V3.00	
			MT29F256G08CUABA	4	2		V3.00	
			MT29F32G08CBABB	1	1	V	V3.00	V
			MT29F32G08CBCBB	1	1	V	V3.00	
			MT29F64G08CFABB	2	1	V	V3.00	
			MT29F64G08CECBB	2	2	V	V3.00	
			MT29F128G08CJABB	2	1	V	V3.00	
			MT29F128G08CKCBB	2	2	V	V3.00	
			MT29F128G08CMCBB	4	2	V	V3.00	
			MT29F256G08CUCBB	4	2	V	V3.00	V
	25nm	M73A	MT29F32G08ABAAA	1	1		V3.00	
			MT29F64G08AFAAA	2	1		V3.00	
			MT29F128G08AJAAA	2	1		V3.00	
			MT29F128G08AKAAA	2	2		V3.00	

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Table 1 : IS902 NAND Flash Support List (Continued)

Vendor	Process	Design Code	Part Number	CE	CH	Toggle/DDR Mode Support	DB Support Version	MP Tool Test
Micron	25nm	M73A	MT29F128G08AMAAA	4	2		V3.00	
			MT29F256G08AUAAA	4	2		V3.00	
			MT29F32G08ABCAB	1	1	V	V3.00	V
			MT29F64G08AECAB	2	2	V	V3.00	
			MT29F128G08AKCAB	2	2	V	V3.00	
			MT29F128G08AMCAB	4	2	V	V3.00	
			MT29F256G08AUCAB	4	2	V	V3.00	
Micron	25nm	E-NAND	MT29E64G08CECBB	2	2	V	V3.00	
			MT29E128G08CKCBB	2	2	V	V3.00	
			MT29E128G08CMCBB	4	2	V	V3.00	
			MT29E256G08CUCBB	4	2	V	V3.00	
		L72A	MT29F16G08CBACA	1	1		V3.00	V
			MT29F32G08CFACA	2	1		V3.00	
		L73A	MT29F32G08CBACA	1	1		V3.00	V
			MT29F64G08CEACA	2	2		V3.00	
			MT29F64G08CFACA	2	1		V3.00	
			MT29F128G08CXACA	4	2		V3.00	
			MT29F64G08CECCB	2	2	V	V3.00	
			MT29F64G08CFACB	2	1	V	V3.00	V
		L74A	MT29F64G08CBAAA	1	1		V3.00	V
			MT29F128G08CEAAA	2	2		V3.00	
			MT29F128G08CFAAA	2	1		V3.00	
			MT29F256G08CJAAA	2	1		V3.00	
			MT29F256G08CKAAA	2	2		V3.00	
			MT29F256G08CMAAA	4	2		V3.00	
			MT29F512G08CUAAA	4	2		V3.00	
			MT29F64G08CBCAB	1	1	V	V3.00	
			MT29F128G08CECAB	2	2	V	V3.00	
			MT29F256G08CKCAB	2	2	V	V3.00	
			MT29F256G08CMCAB	4	2	V	V3.00	
			MT29F512G08CUCAB	4	2	V	V3.00	
Samsung	51nm	SLC	K9KAG08U0M	1	1		V3.10.01	V
			K9WBG08U1M	2	1		V3.10.01	

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Table 1 : IS902 NAND Flash Support List (Continued)

Vendor	Process	Design Code	Part Number	CE	CH	Toggle/DDR Mode Support	DB Support	MP Tool Test
Samsung	51nm	SLC	K9NCG08U5M	4	1		V3.10.01	
	42nm	MLC	K9LBG08U0D	1	1		V3.02.00	
			K9HCG08U1D	2	1		V3.02.00	
			K9MDG08U5D	4	1		V3.02.00	
			K9PDG08U5D	4	2		V3.02.00	V
Samsung	35nm	MLC	K9GAG08U0E	1	1		V3.00	V
	32nm		K9G8G08U0C	1	1		V3.00	V
			K9PFG08U5M	4	2		V3.10.01	V
	27nm		K9GBG08U0A	1	1		V3.01	V
			K9LCG08U1A	2	2		V3.01	
			K9HDG08U5A	4	2		V3.01	
			K9LCG08U0A	1	1		V3.01	V
			K9HDG08U1A	2	1		V3.01	
			K9GBGD8U0A	1	1	V	V3.01	V
			K9LCGD8U0A	1	1	V	V3.01	
Hynix	41nm	MLC	H27UAG8T2A	1	1		V3.00	
			H27UBG8T2M	1	1		V3.00	
			H27UCG8UDM	2	2		V3.00	
			H27UDG8VEM	2	2		V3.00	
	32nm		H27UAG8T2B	1	1		V3.00	V
			H27UBG8T2A	1	1		V3.00	V
			H27UCG8U5A	2	1		V3.00	V
			H27UCG8UDA	2	2		V3.00	V
			H27UDG8V5A	2	1		V3.00	V
			H27UDG8VFA	4	1		V3.00	
			H27UDG8VEA	4	2		V3.00	
			H27UEG8YEA	4	2		V3.01	
			SanDisk	43nm	MLC	SDZNMMBHER-008G	2	2
SDZNMMCHER-016G	4	2					V3.00	
SDZNMMDHER-032G	8	2					V3.00	

3. Recommended Flash List for 2CH layout PCB

Table 2 : Recommended Flash List for 2CH layout PCB

Vendor	Process	Design Code	Part Number	CE	Package	Toggle/DDR Mode Support	DB Support Version
Intel	50nm	SQ58	PF29F16G16MCNC1	2	100-ball BGA	V	V3.00
			PF29F32G16NCNC1	2	100-ball BGA	V	V3.00
	34nm	SD38S	PF29F32G16NCND1	2	100-ball BGA	V	V3.00
Micron	34nm	L63B	MT29F64G08CEABAC5	2	52-pad LGA		V3.00
			MT29F128G08CKABAC5	2	52-pad LGA		V3.00
			MT29F256G08CUCBBH1	4	100-ball BGA	V	V3.00
	25nm	E-NAND	MT29E64G08CECBBH1	2	100-ball BGA	V	V3.00
			MT29E128G08CKCBBH1	2	100-ball BGA	V	V3.00
			MT29E128G08CMCBBH1	4	100-ball BGA	V	V3.00
			MT29E256G08CUCBBH1	4	100-ball BGA	V	V3.00
Samsung	42nm	MLC	K9PDG08U5D-L	4	52-pad LGA	V	V3.02.00
	32nm	MLC	K9PFG08U5M-L	4	52-pad LGA	V	V3.10.01
	27nm	MLC	K9LCG08U1A-M	2	52-pad LGA		V3.01
			K9HDG08U5A-M	4	52-pad LGA		V3.01
Hynix	41nm	MLC	H27UCG8UDMYP	2	52-pad LGA		V3.00
			H27UDG8VEMYP	2	52-pad LGA		V3.00
	32nm		H27UCG8UDAYR	2	52-pad LGA		V3.00
			H27UDG8VEAYR	4	52-pad LGA		V3.00
			H27UEG8YEAYR	4	52-pad LGA		V3.00
SanDisk	43nm	MLC	SDZNMMBHER-008G	2	52-pad LGA		V3.00
			SDZNMMCHER-016G	4	52-pad LGA		V3.00
			SDZNMMDHER-032G	8	52-pad LGA		V3.00

Note :

1. These flash all are support Dual I/O