Rockchip Solutions Nand Flash Support List

Ver 2.67

2015/5/15

◆ Revision History

Revision No.	History	Date	Editor
2.57	1. Upgrade nand driver for RK30xx MID project to support **SDTNQFAMA-004G and K9HDG08U1B , linux-nand-driver_Patch_V1.4** , Boot loader ver **1.18。**	2012.10.18	**ZYF**
2.58	1. Add **RKnanoC** and **RK292X** SupportList. 2. Add **29F64G08CAMDD , 29F16B08JAMDD , 29F64G08ACME3 , 29F16B08CCME3 , 29F32B08JCME3。** 3. Upgrade nand driver for RK30xx MID project to support **29F64G08ACMF3 , 29F16B08CCMF3 and 29F32B08JCMF3** , **linux-nand-driver_Patch_V1.5** , Boot loader ver **1.20。**	2012.11.13	**ZYF**
2.59	1.Upgrade nand driver for **RK292x** MID project to support **29F64G08ACMF3** , **29F16B08CCMF3** and **29F32B08JCMF3,Boot loader ver 1.20。** **2.**Update some NANS FLASH support status.	2012.12.07	**ZYF**
2.60	1. Add **RK3188** SupportList. 2. Add **T/A** test status.	2013.2.21	**ZYF**
2.61	1. Add RK3168 SupportList. 2. Upgrade nand driver to support 29F32G08CBADA , SDTNPMAHEM–008G and SDTNPMAHEM–016G。	2013.4.15	**ZYF**
2.62	1.Update some NAND FLASH support status.	2013.7.15	**ZYF**
2.63	1.Update nand driver(linux-nand-driver_Patch_V2.4),loader version is 2.x. 2.Add 3026 and 3028A SupportList. 3.Add TC58TEG6DDKTA , TH58TEG7DDKTA , TH58TEG8DDKTA , SDTNRGAMA-008G and SDTNRGBMB-016G。	2013.12.15	**ZYF**
2.64	1.Upgrade nand driver (linux-nand-driver_Patch_V2.5) to support TC58TEG5DCKTA, 29F128G08CBEAB,H27UCG8T2ETR, SDTNRGBMB-016GK and SDTNRFAMA-004GK. 2. Add RK3288 SupportList.	2014.6.15	**ZYF**
2.65	1. Add RKRK312x and RK303X SupportList. 2. Update some NAND FLASH support status.	2014.10.15	**ZYF**
2.66	1. Add RKRK3368 SupportList. 2. Update some NAND FLASH support status.	2015.4.15	**ZYF**
2.67	1. Upgrade nand driver (linux-nand-driver_Patch_V2.8) to improve data retention for H27UCG8T2ETR. 2. Remove RK306x,RK292x,RK3188,RK302X and RK3168 to support H27UCG8T2ETR and H27UBG8T2DTR.	2015.5.15	**ZYF**

◆ Symbol

Symbol	Description
√	Fully Tested , Applicable and Mass Production
T/A	Fully Tested , Applicable and Ready for Mass Production
D/A	Datasheet Applicable,Need Sample to Test.
N/A	Not Applicable

◆ The Latest Flash Driver Version

Acronyms	Chip	Flash Driver Version Or LIB File
NANOC200	RKnanoC	RKNANOC flash lib:RkNanoC_Nand_V200_20121020.lib Boot loader Ver 2.00 or later.
A_2.24	RK3368	Mini Boot Loader Ver 2.24 or later.
A_2.24	RK303X	Mini Boot Loader Ver 2.24 or later.
A_2.24	RK312X	Mini Boot Loader Ver 2.24 or later.
A_2.24	RK306x\RK292x\RK3188\RK302X\RK3168	linux-nand-driver_Patch_V2.8, Boot loader Ver 2.24 or later.
A_2.24	RK32xx\RK303X\RK312X	Mini Boot Loader Ver 2.24 or later.

◆ Notes

◆ Guide

EX:How to check whether **RK3066** support the flash **MT29F64G08CBABA** ?

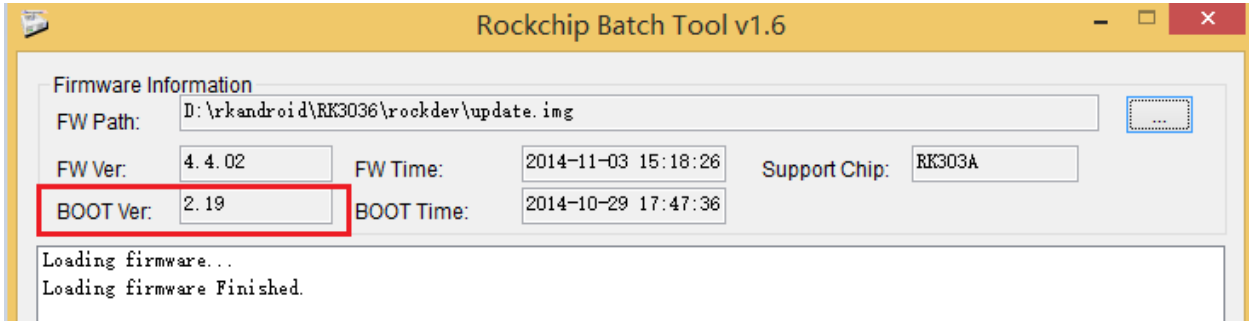
First ,search **29F64G08CBABA** in this support list.

Manufacturer	Part Number	Byte Size	Block size (bytes)	Page size (bytes)	ECC bits	mode (nCE)	Type	Process	RK32xx	RKNanoC	RK312X	RK303X	rk306x/rk292x rk3188/rk302x	RK3368	Remark
									A_2.24	NANOC200	A_2.24	A_2.24	A_2.24	A_2.24	
Micron	29F64G08CBABA	8GB	2M+186K	8K+744	40	1	mlc	20nm	T/A	√	T/A	T/A	√		

Second, In the RK30xx column,we can see RK30xx support 29F64G08CBABA with flash driver version A_2.24.

Third, search A_2.24 in Flash Driver Table, and we can see linux-nand-driver_Patch_V2.5 and Boot loader Ver 2.16 is support this Flash.

EX:How to check boot loader version?
Run Rockchip batch tool and open the firmware file, the tool will display the boot loader version.



Manufacturer	Part Number	Byte Size	Block size (bytes)	Page size (bytes)	ECC bits	mode (nCE)	Type	Process	RK32xx	RKNanoC	RK312X	RK303X	rk306x/rk292x rk3188/rk302x	RK3368	Remark
									A_2.24	NANOC200	A_2.24	A_2.24	A_2.24	A_2.24	
Micron	29F32G08MAA	4GB	512K+27K	4K+218	12	1	mlc	34nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F32G08CBAAA	4GB	512K+27K	4K+218	12	1	mlc	34nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F64G08CFAAA	8GB	512K+27K	4K+218	12	2	mlc	34nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F64G08CEAAA	8GB	512K+27K	4K+218	12	2	mlc	34nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F128G08TAA	16GB	512K+27K	4K+218	12	2	mlc	34nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F128G08CKAAA	16GB	512K+27K	4K+218	12	2	mlc	34nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F128G08CJAAA	16GB	512K+27K	4K+218	12	2	mlc	34nm	D/A	T/A	D/A	D/A	D/A	D/A	
Micron	29F32G08CBABA	4GB	1M+54K	4K+218	12	1	mlc	34nm	D/A	T/A	D/A	D/A	D/A	D/A	
Micron	29F16G08CBABA	2GB	1M+54K	4K+218	12	1	mlc	34nm	D/A	T/A	D/A	D/A	D/A	D/A	
Micron	29F128G08CJABA	16GB	1M+54K	4K+218	12	2	mlc	34nm	D/A	T/A	D/A	D/A	D/A	D/A	
Micron	29F64G08CFABA	8GB	1M+54K	4K+218	12	2	mlc	34nm	D/A	T/A	D/A	D/A	D/A	D/A	
Micron	29F32G08CBACA	4GB	1M+56K	4K+224	24	1	mlc	25nm	D/A	T/A	D/A	D/A	T/A	D/A	
Micron	29F64G08CBAAA	8GB	2M+112K	8K+448	24	1	mlc	25nm	D/A	T/A	D/A	D/A	T/A	D/A	
Micron	29F128G08CFAAA	16GB	2M+112K	8K+448	24	2	mlc	25nm	D/A	T/A	D/A	D/A	T/A	D/A	
Micron	29F256G08CJAAA	32GB	2M+112K	8K+448	24	2	mlc	25nm	D/A	T/A	D/A	D/A	D/A	D/A	
Micron	29F16G08CBACA	2GB	1M+564K	4K+224	24	1	mlc	25nm	N/A	D/A	N/A	N/A	N/A	N/A	
Micron	29F32G08CFACA	4GB	1M+56K	4K+224	24	2	mlc	25nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F64G08CBABA	8GB	2M+186K	8K+744	40	1	mlc	20nm	T/A	√	D/A	D/A	√	T/A	
Micron	29F128G08CFABA	16GB	2M+186K	8K+744	40	2	mlc	20nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F256G08CJABA	32GB	2M+186K	8K+744	40	2	mlc	20nm	D/A	D/A	D/A	D/A	D/A	D/A	
Micron	29F32G08CBADA	4GB	2M+186K	8K+744	40	1	mlc	20nm	T/A	N/A	D/A	D/A	T/A	D/A	
Micron	29F128G08CBEAB	16GB	4M+584K	16K+1168	40	1	mlc	20nm	D/A	N/A	D/A	D/A	D/A	D/A	FBGA

Manufacturer	Part Number	Byte Size	Block size (bytes)	Page size (bytes)	ECC bits	mode (nCE)	Type	Process	RK32xx	RKNanoC	RK312X	RK303X	rk306x/rk292x rk3188/rk302x	RK3368	Remark
									A_2.24	NANOC200	A_2.24	A_2.24	A_2.24	A_2.24	
Toshiba	TC58NVG4D2HTA	2GB	1M+80K	8K+640	24	1	mlc	24nm	D/A	D/A	D/A	D/A	T/A	D/A	
Toshiba	TC58NVG5D2HTA	4GB	1M+80K	8K+640	24	1	mlc	24nm	D/A	T/A	D/A	D/A	T/A	D/A	
Toshiba	TC58NVG6D2GTA	8GB	2M+160K	8K+640	24	1	mlc	24nm	D/A	T/A	D/A	D/A	T/A	D/A	
Toshiba	TH58NVG7D2GTA	16GB	2M+160K	8K+640	24	2	mlc	24nm	D/A	T/A	D/A	D/A	T/A	D/A	
Toshiba	TC58TEG5DCJTA	4GB	4M+320K	16K+1280	40	1	mlc	19nm	√	T/A	√	D/A	T/A	D/A	
Toshiba	TC58NVG6DCJTA	8GB	4M+320K	16K+1280	40	1	mlc	19nm	D/A	D/A	D/A	D/A	T/A	D/A	
Toshiba	TH58NVG7DCJTA	16GB	4M+320K	16K+1280	40	2	mlc	19nm	D/A	T/A	D/A	D/A	T/A	T/A	
Toshiba	TH58NVG8DCJTA	32GB	4M+320K	16K+1280	40	2	mlc	19nm	D/A	D/A	D/A	D/A	D/A	D/A	
Toshiba	TC58TEG6DCJTA	8GB	4M+320K	16K+1280	40	1	mlc	19nm	D/A	T/A	D/A	D/A	√	D/A	
Toshiba	TH58TEG7DCJTA	16GB	4M+320K	16K+1280	40	2	mlc	19nm	D/A	D/A	D/A	D/A	T/A	D/A	
Toshiba	TH58TEG8DCJTA	32GB	4M+320K	16K+1280	40	2	mlc	19nm	D/A	T/A	D/A	D/A	T/A	D/A	
Toshiba	TC58TEG6DDKTA	8GB	4M+320K	16K+1280	40	1	mlc	A19nm	T/A	N/A	T/A	D/A	T/A	T/A	
Toshiba	TH58TEG7DDKTA	16GB	4M+320K	16K+1280	40	2	mlc	A19nm	T/A	N/A	D/A	D/A	T/A	T/A	
Toshiba	TH58TEG8DDKTA	32GB	4M+320K	16K+1280	40	2	mlc	A19nm	D/A	N/A	D/A	D/A	D/A	D/A	
Toshiba	TC58TEG5DCKTA	4GB	4M+320K	16K+1280	40	1	mlc	A19nm	T/A	N/A	T/A	T/A	T/A	T/A	

Manufacturer	Part Number	Byte Size	Block size (bytes)	Page size (bytes)	ECC bits	mode (nCE)	Type	Process	RK32xx	RKNanoC	RK312X	RK303X	rk306x/rk292x rk3188/rk302x	RK3368	Remark
									A_2.24	NANOC200	A_2.24	A_2.24	A_2.24	A_2.24	
Hynix	H27UBG8T2A	4GB	2M+112K	8K+448	24	1	mlc	32nm	D/A	√	D/A	D/A	D/A	D/A	
Hynix	H27UCG8U5A	8GB	2M+112K	8K+448	24	2	mlc	32nm	D/A	D/A	D/A	D/A	D/A	D/A	
Hynix	H27UCG8UDA	8GB	2M+112K	8K+448	24	2	mlc	32nm	D/A	D/A	D/A	D/A	D/A	D/A	
Hynix	H27UDG8UFA	16GB	2M+112K	8K+448	24	4	mlc	32nm	D/A	D/A	D/A	D/A	D/A	D/A	
Hynix	H27UAG8T2B	2GB	2M+112K	8K+448	24	1	mlc	32nm	D/A	D/A	D/A	D/A	D/A	D/A	
Hynix	H27UBG8T2B	4GB	2M+160K	8K+640	24	1	mlc	26nm	D/A	D/A	D/A	D/A	T/A	D/A	
Hynix	H27UCG8T5B	8GB	2M+160K	8K+640	24	1	mlc	26nm	D/A	D/A	D/A	D/A	T/A	D/A	
Hynix	H27UCG8T2M	8GB	2M+112K	8K+448	24	1	mlc	26nm	D/A	D/A	D/A	D/A	T/A	D/A	
Hynix	H27UBG8T2CTR	4GB	2M+160K	8K+640	40	1	mlc	20nm	T/A	T/A	D/A	D/A	T/A	D/A	
Hynix	H27UCG8T2ATR	8GB	2M+160K	8K+640	40	1	mlc	20nm	T/A	T/A	T/A	T/A	√	D/A	
Hynix	H27UCG8T2BT(Y)R	8GB	4M+320K	16K+1280	40	1	mlc	20nm	√	D/A	T/A	T/A	√	D/A	
Hynix	H27UCG8T2ETR	8GB	4M+416K	16K+1664	40	1	mlc	16nm	√	N/A	√	D/A	N/A	T/A	
Hynix	H27UBG8T2DTR	4GB	2M+208K	8K+832	40	1	mlc	16nm	T/A	N/A	D/A	D/A	N/A	D/A	

Manufacturer	Part Number	Byte Size	Block size (bytes)	Page size (bytes)	ECC bits	mode (nCE)	Type	Process	RK32xx	RKNanoC	RK312X	RK303X	rk306x/rk292x rk3188/rk302x	RK3368	Remark
									A_2.24	NANOC200	A_2.24	A_2.24	A_2.24	A_2.24	
Samsung	K9GAG08U0E	2GB	1M+54.5K	8K+436	24	1	mlc	32nm	D/A	T/A	D/A	D/A	D/A	D/A	
Samsung	K9LBG08U0E	4GB	1M+54.5K	8K+436	24	1	mlc	32nm	D/A	T/A	D/A	D/A	D/A	D/A	
Samsung	K9HCG08U1E	8GB	1M+54.5K	8K+436	24	2	mlc	32nm	D/A	T/A	D/A	D/A	D/A	D/A	
Samsung	K9GBG08U0A	4GB	1M+80K	8K+640	24	1	mlc	27nm	D/A	T/A	D/A	D/A	T/A	D/A	
Samsung	K9LCG08U0A	8GB	1M+80K	8K+640	24	1	mlc	27nm	D/A	T/A	D/A	D/A	T/A	D/A	
Samsung	K9HDG08U1A	16GB	1M+80K	8K+640	24	2	mlc	27nm	D/A	T/A	D/A	D/A	T/A	D/A	
Samsung	K9GAG08U0F	2GB	1M+64K	8K+512	24	1	mlc	27nm	D/A	T/A	D/A	D/A	T/A	D/A	
Samsung	K9GBG08U0B	4GB	1M+128K	8K+1K	40	1	mlc	21nm	D/A	T/A	D/A	D/A	T/A	D/A	
Samsung	K9LCG08U0B	8GB	1M+128K	8K+1K	40	1	mlc	21nm	D/A	T/A	D/A	D/A	T/A	D/A	
Samsung	K9HDG08U1B	16GB	1M+128K	8K+1K	40	1	mlc	21nm	D/A	T/A	D/A	D/A	T/A	D/A	

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									A_2.24	NANOC200	A_2.24	A_2.24	A_2.24	A_2.24	
INTEL	29F32G08AAME1	4GB	1M+56K	4K+224	24	1	mlc	25nm	D/A	D/A	D/A	D/A	D/A	D/A	
INTEL	29F64G08AAME1	8GB	2M+112K	8K+448	24	2	mlc	25nm	D/A	D/A	D/A	D/A	D/A	D/A	
INTEL	29F16B08CAME1	16GB	2M+112K	8K+448	24	2	mlc	25nm	D/A	D/A	D/A	D/A	D/A	D/A	
INTEL	29F32B08JAME1	32GB	2M+112K	8K+448	24	4	mlc	25nm	D/A	D/A	D/A	D/A	D/A	D/A	
INTEL	29F64G08CAMDD	8GB	1M+54K	4K+218	12	2	mlc	34nm	D/A	D/A	D/A	D/A	T/A	D/A	
INTEL	29F16B08JAMDD	16GB	512K+27K	4K+218	12	4	mlc	34nm	D/A	D/A	D/A	D/A	T/A	D/A	
INTEL	29F64G08ACME3	8GB	2M+112K	8K+448	24	1	mlc	25nm	D/A	D/A	D/A	D/A	T/A	D/A	
INTEL	29F16B08CCME3	16GB	2M+112K	8K+448	24	2	mlc	25nm	D/A	D/A	D/A	D/A	D/A	D/A	
INTEL	29F32B08JCME3	32GB	2M+112K	8K+448	24	4	mlc	25nm	D/A	D/A	D/A	D/A	D/A	D/A	
INTEL	29F64G08ACMF3	8GB	2M+186K	8K+744	40	1	mlc	20nm	D/A	D/A	D/A	D/A	T/A	D/A	
INTEL	29F16B08CCMF3	16GB	2M+186K	8K+744	40	2	mlc	20nm	D/A	D/A	D/A	D/A	T/A	D/A	
INTEL	29F32B08JCMF3	32GB	2M+186K	8K+744	40	4	mlc	20nm	D/A	D/A	D/A	D/A	D/A	D/A	

Manufacturer	Part Number	Byte Size	Block size (bytes)	Page size (bytes)	ECC bits	mode (nCE)	Type	Process	RK32xx	RKNanoC	RK312X	RK303X	rk306x/rk292x rk3188/rk302x	RK3368	Remark
									A_2.24	NANOC200	A_2.24	A_2.24	A_2.24	A_2.24	
SanDisk	SDTNQGAMA-008G	8GB	4M+320K	16K+1280	40	1	mlc	19nm	D/A	D/A	D/A	D/A	T/A	D/A	
SanDisk	SDTNQGBMB-016G	16GB	4M+320K	16K+1280	40	2	mlc	19nm	D/A	D/A	D/A	D/A	T/A	D/A	
SanDisk	SDTNQGCMB-032G	32GB	4M+320K	16K+1280	40	2	mlc	19nm	D/A	D/A	D/A	D/A	D/A	D/A	
SanDisk	SDTNQFAMA-004G	4GB	4M+320K	16K+1280	40	1	mlc	19nm	D/A	D/A	D/A	D/A	T/A	D/A	
SanDisk	SDTNPMAHEM–008G	8GB	2M+160K	8KB+640	40	1	mlc	24nm	D/A	N/A	D/A	D/A	T/A	D/A	
SanDisk	SDTNPMAHEM–016G	16GB	2M+160K	8KB+640	40	2	mlc	24nm	D/A	N/A	D/A	D/A	T/A	D/A	
SanDisk	SDTNRGAMA-008G	8GB	4M+320K	16K+1280	40	2	mlc	A19nm	T/A	N/A	D/A	D/A	T/A	D/A	
SanDisk	SDTNRGBMB-016G	16GB	4M+320K	16K+1280	40	2	mlc	A19nm	D/A	N/A	D/A	D/A	D/A	D/A	
SanDisk	SDTNRFAMA-004GK	4GB	4M+320K	16K+1280	40	1	mlc	A19nm	T/A	N/A	T/A	T/A	T/A	T/A	
SanDisk	SDTNRGAMA-008GK	8GB	4M+320K	16K+1280	40	2	mlc	A19nm	T/A	N/A	T/A	T/A	T/A	T/A	
SanDisk	SDTNRGBMB-016GK	16GB	4M+320K	16K+1280	40	2	mlc	A19nm	T/A	N/A	T/A	T/A	T/A	D/A	