

JMF608/JMF609

NAND Flash Support List

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Revision History

Revision	Effect Date	Description of Revision		Author
		Reference	Description of the Change	
0.1	2013-10-15	--	Initial release.	Bow Lin
0.2	2013-12-11	3.1	Support more MLC NAND Flash	Bow Lin
0.3	2014-03-04	3.1	Support Intel L84C NAND Flash	Bow Lin
0.4	2014-03-11	3.1	Add Micron L84C and Intel L85A NAND Flash	Bow Lin
0.5	2014-05-05	3.1 3.2 3.3	Support 1) TSB 19nm C multi-LUN NAND Flash 2) TSB 1Ynm A19 (Toggle 1.0_TSOP) 3) TSB 24nm SLC (Legacy_TSOP) 4) Intel/Micron 20nm L85C	Bow Lin
0.6	2014-05-08	3.1 3.2 3.3	Support Intel 25nm MLC L74A	Bow Lin
0.7	2014-06-12	3.1 3.2 3.3	Delete 1) Intel/Micron multi-LUN NAND Flash Support 1) TSB 19nm B multi-LUN NAND Flash 2) TSB 1Ynm A19 (Toggle 2.0_BGA) 3) TSB 24nm SLC (Toggle 2.0_BGA) 4) Micron 25nm MLC L74A 5) 256GB large capacity by L85A, L85C and TSB multi-LUN NAND Flash	Bow Lin
0.8	2014-08-12	3.1 3.2 3.3	Support 1) Intel 25nm MLC L74A multi-LUN NAND Flash 2) Intel 25nm SLC L74A NAND Flash 3) Micron 20nm L85A multi-LUN NAND Flash 4) Micron 25nm MLC L74A NAND Flash 5) Micron 20nm MLC L83A NAND Flash 6) Micron 20nm SLC M84A NAND Flash	Bow Lin
0.9	2014-08-14	3.1	Delete 1) TSB 24nm SLC 128GB_4CH/4CE configuration Modify 1) Typo error of BIN name	Bow Lin

1.0	2014-12-01	3.1 3.2 3.3	Add 1) Suggestion OP percentage for reference 2) More CH/CE application Delete 1) JMF608 256GB configuration & JMF609 128GB configuration Support 1) Micron 25nm MLC L74A multi-LUN NAND Flash 2) TSB 1Ynm one-plane NAND Flash 3) TSB 24nm MLC NAND Flash 4) TSB 19nm Type A NAND Flash 5) 4KB page SLC NAND Flash	Bow Lin
1.1	2014-12-16	3.1 3.2 3.3	Modify 1) Wrong OP percentage for non-64pages SLC NAND Flash Support 1) More types of 4KB page SLC NAND Flash	Bow Lin
1.2	2014-12-19	3.1 3.2 3.3	Add 1) Drive Current value for TSB A19 NAND Flash 2) Note for TSB 19nm type A and 24nm NAND Flash Delete 1) Some mult-LUN_4CE configuration or P/Ns	Bow Lin
1.3	2015-08-10	3.1 3.2 3.3 3.4 3.5	Modify 1) Wrong Bin name for Micron M73A NAND Flash Support 1) Toshiba 15nm NAND Flash 2) Toshiba 32nm SLC NAND Flash 3) Sandisk 1Ynm A19 NAND Flash 4) Sandisk 19nm type A NAND Flash 5) Sandisk 19nm type C NAND Flash 6) Micron 25nm MLC L73A NAND Flash 7) Hynix 20nm MLC A-Die NAND Flash 8) Hynix 20nm MLC B-Die NAND Flash	Bow Lin
1.4	2015-08-13	3.1	Modify 1) Wrong Bin name for TSB 15nm NAND Flash	Bow Lin
1.5	2015-08-20	3.1	Delete 1) TH58TFG9DDLTA20_2CH/2CE_128GB 2) TH58TFT0DDLBA8H_2CH/2CE_128GB	Bow Lin

 This document is valid until ☐ the date yyyy-mm-dd ☒ the next revision has been effective.

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1 Introduction

JMF608/JMF609 is a single chip SATA III NAND flash controller. For JMF608, it supports up to 4 channels with 4 CE/channel NAND flash memory. For JMF609, it supports up to 2 channels with 4 CE/channel NAND flash memory. JMF608/JMF609 provides on-chip RAM buffer, optimized for capacity below 128GB, and is suitable to cost effective, small capacity SSD or hard drive cache application. The embedded hardwired logic provides the maximum 300Mbps data read and 200Mbps data write speed to NAND flash memory.

JMF608/JMF609 has the best supporting to the latest NAND flash memory, including Toshiba 19nm and Micron 20nm Flash. It also provides the hardwired Error Correction Code (ECC) engine (up to 40b/1KB), wear leveling, and bad block management technology in this chip.

JMF608/JMF609 provides embedded processor, internal masked ROM, data SRAM, SATA link/transport layer, SATA PHY. It supports online firmware upgrade through SATA port. Data swap between different interfaces can be done very efficiency by DMA without CPU intervention.

2 Features

2.1 Flash Features

- For JMF608, support 4 hardware channels with 4 CE pins per channel to NAND flash memory.
- For JMF609, support 2 hardware channels with 4 CE pins per channel to NAND flash memory.
- On-chip data buffer RAM.
- Support Toshiba 24nm/19nm MLC and Micron 25nm/20nm MLC NAND flash memory.
- Support Legacy/Toggle 1.0/2.0/ONFI 2.3/3.0 NAND flash memory.
- Support up to 300Mbps burst read and 200Mbps burst write to NAND flash memory.
- Enhanced endurance by dynamic/static wear-leveling.
- Supports 8K/16K bytes page size.
- Supports 8/16/24/40-bit per 1KB BCH ECC.
- Support Shift-Read Feature of NAND flash memory.

3 NAND Flash Support List

3.1 Toshiba NAND Flash

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	4Gx8bit	TC58TEG5DCJTA00 (CEx1) TC58TEG5DCJTAI0 (CEx1)	16KB page 19nm Type-B Legacy to Toggle 1.0 48-pin TSOP	4GB	(1CH/1CE) DCACCAAA.bin	6.5%	1
					8GB	(2CH/1CE) DCACCABA.bin	6.7%	2
					12GB	(3CH/1CE) DCACCACA.bin	6.7%	3
					16GB	(4CH/1CE) DCACCADA.bin	6.7%	4
						(2CH/2CE) DCACCAFA.bin		
					32GB	(4CH/2CE) DCACCAHA.bin	6.8%	8
						(2CH/4CE) DCACCANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	8Gx8bit	TC58TEG6DCJTA00 (CEx1) TC58TEG6DCJTA10 (CEx1)	16KB page 19nm Type B Legacy to Toggle 1.0 48-pin TSOP	8GB	(1CH/1CE) DCBCCAAA.bin	6.7%	1
					16GB	(2CH/1CE) DCBCCABA.bin	6.7%	2
					24GB	(3CH/1CE) DCBCCACA.bin	6.8%	3
					32GB	(4CH/1CE) DCBCCADA.bin	6.8%	4
						(2CH/2CE) DCBCCAFA.bin		
					64GB	(4CH/2CE) DCBCCAHA.bin	12.6%	8
						(2CH/4CE) DCBCCANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	16Gx8bit	TH58TEG7DCJTA20 (CEx2) TH58TEG7DCJTA00 (CEx2)	16KB page 19nm Type B Legacy to Toggle 1.0 48-pin TSOP	16GB	(1CH/2CE) DCBCCAEA.bin	6.7%	1
					32GB	(2CH/2CE) DCBCCAFA.bin	6.8%	2
					64GB	(4CH/2CE) DCBCCAHA.bin	12.6%	4
						(2CH/4CE) DCBCCANA.bin		
					128GB	(4CH/4CE) DCBCCAPA.bin	12.6%	8
		32Gx8bit	TH58TEG8DCJTA20 (CEx2) TH58TEG8DCJTA00 (CEx2)	16KB page 19nm Type B Legacy to Toggle 1.0 48-pin TSOP (multi-LUN)	32GB	(1CH/2CE) DCBCCCEA.bin	6.8%	1
					64GB	(2CH/2CE) DCBCCCFA.bin	12.6%	2
					128GB	(4CH/2CE) DCBCCCHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	16Gx8bit	TH58TEG7DCJBA4C (CEx2) TH58TEG7DCJBAMC (CEx2)	16KB page 19nm Type B Toggle 2.0 132-ball BGA	16GB	(2CH/1CE) FCBCCABA.bin	6.7%	1
					32GB	(4CH/1CE) FCBCCADA.bin	6.8%	2
						(2CH/2CE) FCBCCAFA.bin		
					64GB	(4CH/2CE) FCBCCAHA.bin	12.6%	4
						(2CH/4CE) FCBCCANA.bin		
					128GB	(4CH/4CE) FCBCCAPA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	8Gx8bit	TC58TEG6DDJTA00 (CEx1) TC58TEG6DDJTAI0 (CEx1)	16KB page 19nm Type C Legacy to Toggle 1.0 48-pin TSOP	8GB	(1CH/1CE) DBBCCAAA.bin	6.7%	1
					16GB	(2CH/1CE) DBBCCABA.bin	6.7%	2
					24GB	(3CH/1CE) DBBCCACA.bin	6.8%	3
					32GB	(4CH/1CE) DBBCCADA.bin	6.8%	4
						(2CH/2CE) DBBCCAFA.bin		
					64GB	(4CH/2CE) DBBCCAHA.bin	6.8%	8
						(2CH/4CE) DBBCCANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	16Gx8bit	TH58TEG7DDJTA20 (CEx2) TH58TEG7DDJTAK0 (CEx2)	16KB page 19nm Type C Legacy to Toggle 1.0 48-pin TSOP	16GB	(1CH/2CE) DBBCCAFA.bin	6.7%	1
					32GB	(2CH/2CE) DBBCCAFA.bin	6.8%	2
					64GB	(4CH/2CE) DBBCCAFA.bin	6.8%	4
						(2CH/4CE) DBBCCANA.bin		
					128GB	(4CH/4CE) DBBCCAPA.bin	12.6%	8
		32Gx8bit	TH58TEG8DDJTA20 (CEx2) TH58TEG8DDJTAK0 (CEx2)	16KB page 19nm Type C Legacy to Toggle 1.0 48-pin TSOP (multi-LUN)	32GB	(1CH/2CE) DBBCCCEA.bin	6.8%	1
					64GB	(2CH/2CE) DBBCCCFA.bin	6.8%	2
					128GB	(4CH/2CE) DBBCCCHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	16Gx8bit	TH58TEG7DDJBA4C (CEx2) TH58TEG7DDJBAMC (CEx2)	16KB page 19nm Type C Toggle 2.0 132-ball BGA	16GB	(2CH/1CE) FBBCCABA.bin	6.7%	1
					32GB	(4CH/1CE) FBBCCADA.bin	6.8%	2
						(2CH/2CE) FBBCCAFA.bin		
					64GB	(4CH/2CE) FBBCCAHA.bin	6.8%	4
						(2CH/4CE) FBBCCANA.bin		
					128GB	(4CH/4CE) FBBCCAPA.bin	12.6%	8
	MLC	32Gx8bit	TH58TEG8DDJBA8C (CEx4) TH58TEG8DDJBASC (CEx4)	16KB page 19nm Type C Toggle 2.0 132-ball BGA	32GB	(2CH/2CE) FBBCCAFA.bin	6.8%	1
					64GB	(4CH/2CE) FBBCCAHA.bin	6.8%	2
						(2CH/4CE) FBBCCANA.bin		
					128GB	(4CH/4CE) FBBCCAPA.bin	12.6%	4
	MLC	64Gx8bit	TH58TEG9DDJBA89 (CEx4) TH58TEG9DDJBAS9 (CEx4)	16KB page 19nm Type C Toggle 2.0 132-ball BGA (multi-LUN)	64GB	(2CH/2CE) FBBCCFAA.bin	6.8%	1
					128GB	(4CH/2CE) FBBCCCHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	4Gx8bit	TC58TEG5DCKTA00 (CEx1) TC58TEG5DCKTAI0 (CEx1)	16KB page 1Ynm one-plane Legacy To Toggle 1.0 48-pin TSOP	4GB 10mA	(1CH/1CE) DIACCAAA.bin	12.6%	1
					8GB 10mA	(2CH/1CE) DIACCABA.bin	12.6%	2
					12GB 10mA	(3CH/1CE) DIACCACA.bin	12.6%	3
					16GB 10mA	(4CH/1CE) DIACCADA.bin	12.6%	4
						(2CH/2CE) DIACCAFA.bin		
					32GB 10mA	(4CH/2CE) DIACCAHA.bin	12.6%	8
						(2CH/4CE) DIACCANA.bin		
		8Gx8bit	TC58TEG6DDKTA00 (CEx1) TC58TEG6DDKTAI0 (CEx1)	16KB page 1Ynm A19 Legacy To Toggle 1.0 48-pin TSOP	8GB 10mA	(1CH/1CE) DFBCCAAA.bin	6.7%	1
					16GB 10mA	(2CH/1CE) DFBCCABA.bin	6.7%	2
					24GB 10mA	(3CH/1CE) DFBCCACA.bin	6.8%	3
					32GB 10mA	(4CH/1CE) DFBCCADA.bin	6.8%	4
						(2CH/2CE) DFBCCAFA.bin		
					64GB 10mA	(4CH/2CE) DFBCCAHA.bin	6.8%	8
						(2CH/4CE) DFBCCANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	16Gx8bit	TH58TEG7DDKTA20 (CEx2) TH58TEG7DDKTAK0 (CEx2)	16KB page 1Ynm A19 Legacy To Toggle 1.0 48-pin TSOP	16GB 10mA	(1CH/2CE) DFBCCAEA.bin	6.7%	1
					32GB 10mA	(4CH/1CE) DFBCCADA.bin	6.8%	2
						(2CH/2CE) DFBCCAFa.bin		
					64GB 10mA	(4CH/2CE) DFBCCAHA.bin	6.8%	4
						(2CH/4CE) DFBCCANA.bin		
					128GB 10mA	(4CH/4CE) DFBCCAPA.bin	12.6%	8
		32Gx8bit	TH58TEG8DDKTA20 (CEx2) TH58TEG8DDKTAK0 (CEx2)	16KB page 1Ynm A19 Legacy To Toggle 1.0 48-pin TSOP (multi-LUN)	32GB 10mA	(1CH/2CE) DFBCCCEA.bin	6.8%	1
					64GB 10mA	(2CH/2CE) DFBCCCFA.bin	6.8%	2
						(4CH/2CE) DFBCCCHA.bin		
					128GB 10mA	(4CH/2CE) DFBCCCHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	16Gx8bit	TH58TEG7DDKBA4C (CEx2)	16KB page 1Ynm A19 Toggle 2.0 132-ball BGA	16GB 10mA	(2CH/1CE) FFBCCABA.bin	6.7%	1
					32GB 10mA	(4CH/1CE) FFBCCADA.bin	6.8%	2
						(2CH/2CE) FFBCCAFA.bin		
					64GB 10mA	(4CH/2CE) FFBCCAHA.bin	6.8%	4
					64GB 12mA	(2CH/4CE) FFBCCANA.bin		
					128GB 12mA	(4CH/4CE) FFBCCAPA.bin	12.6%	8
		32Gx8bit	TH58TEG8DDKBA8C (CEx4)	16KB page 1Ynm A19 Toggle 2.0 132-ball BGA	32GB 10mA	(2CH/2CE) FFBCCAFA.bin	6.8%	1
					64GB 10mA	(4CH/2CE) FFBCCAHA.bin	6.8%	2
					64GB 12mA	(2CH/4CE) FFBCCANA.bin		
					128GB 12mA	(4CH/4CE) FFBCCAPA.bin	12.6%	4
		64Gx8bit	TH58TEG9DDKBA8H (CEx4)	16KB page 1Ynm A19 Toggle 2.0 132-ball BGA (multi-LUN)	64GB 12mA	(2CH/2CE) FFBCCCFA.bin	6.8%	1
					128GB 12mA	(4CH/2CE) FFBCCCHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	8Gx8bit	TC58TEG6DDLT00 (CEx1)	16KB page 15nm Legacy To Toggle 1.0 48-pin TSOP	8GB	(1CH/1CE) DFBCCAAA.bin	6.7%	1
					16GB	(2CH/1CE) DFBCCABA.bin	6.7%	2
					32GB	(4CH/1CE) DFBCCADA.bin	6.8%	4
						(2CH/2CE) DFBCCAF0A.bin		
					64GB	(4CH/2CE) DFBCC0A0A.bin	6.8%	8
						(2CH/4CE) DFBCC0ANA.bin		
		16Gx8bit	TC58TFG7DDLT00 (CEx1)	16KB page 15nm Legacy To Toggle 1.0 48-pin TSOP	16GB	(1CH/1CE) DFCCCCAAA.bin	6.7%	1
					32GB	(2CH/1CE) DFCCCCABA.bin	6.8%	2
					64GB	(4CH/1CE) DFCCCCADA.bin	6.8%	4
						(2CH/2CE) DFCCCCAFA.bin		
					128GB	(4CH/2CE) DFCCCCA0A.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	32Gx8bit	TH58TFG8DDLT20 (CEx2)	16KB page 15nm Legacy To Toggle 1.0 48-pin TSOP	32GB	(1CH/2CE) DFCCCAEA.bin	6.8%	1
					64GB	(2CH/2CE) DFCCCAFA.bin	6.8%	2
					128GB	(4CH/2CE) DFCCCAHA.bin	12.6%	4
		64Gx8bit	TH58TFG9DDLT20 (CEx2)	16KB page 15nm Legacy To Toggle 1.0 48-pin TSOP (multi-LUN)	64GB	(1CH/2CE) DFCCCCEA.bin	6.8%	1

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	32Gx8bit	TH58TFG8DDLBA4C (CEx2)	16KB page 15nm Toggle 2.0 132-ball BGA	32GB	(2CH/1CE) FFCCCAABA.bin	6.8%	1
					64GB	(4CH/1CE) FFCCCAADA.bin	6.8%	2
					128GB	(4CH/2CE) FFCCCAHA.bin	12.6%	4
	64Gx8bit		TH58TFG9DDLBA8C (CEx4)	16KB page 15nm Toggle 2.0 132-ball BGA	64GB	(2CH/2CE) FFCCCAFA.bin	6.8%	1
					128GB	(4CH/2CE) FFCCCAHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	MLC	16Gx8bit	TH58TEG7D2JBA4C (CEx2) TH58TEG7D2JBAMC (CEx2)	8KB page 19nm Type A Toggle 2.0 132-ball BGA	16GB	(2CH/1CE) FACCBABA.bin	6.7%	1
					32GB	(4CH/1CE) FACCBADA.bin	6.8%	2
						(2CH/2CE) FACCBABA.bin		
					64GB	(4CH/2CE) FACCBABA.bin	6.8%	4
						(2CH/4CE) FACCBANA.bin		
					128GB	(4CH/4CE) FACCBABA.bin	12.6%	8
	MLC	32Gx8bit	TH58TEG8D2JBA8C (CEx4) TH58TEG8D2JBASC (CEx4)	8KB page 19nm Type A Toggle 2.0 132-ball BGA	32GB	(2CH/2CE) FACCBABA.bin	6.8%	1
					64GB	(4CH/2CE) FACCBABA.bin	6.8%	2
						(2CH/4CE) FACCBANA.bin		
					128GB	(4CH/4CE) FACCBABA.bin	12.6%	4
	MLC	64Gx8bit	TH58TEG9D2JBA89 (CEx4) TH58TEG9D2JBAS9 (CEx4)	8KB page 19nm Type A Toggle 2.0 132-ball BGA (multi-LUN)	64GB	(2CH/2CE) FACCBABA.bin	6.8%	1
					128GB	(4CH/2CE) FACCBABA.bin	12.6%	2

Note:

- For TSB 19nm type A NAND Flash, adjust NVCCQ voltage & NAND output Driver Strength, or enable ODT might be necessary.

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
<u>Toshiba</u>	MLC	32Gx8bit	TH58TEG8D2HBA8C (CEx4) TH58TEG8D2HBASC (CEx4)	8KB page 24nm Toggle 2.0 132-ball BGA	32GB	(2CH/2CE) FACCBFAA.bin	6.8%	1
					64GB	(4CH/2CE) FACCBABA.bin	6.8%	2
						(2CH/4CE) FACCBANA.bin		
					128GB	(4CH/4CE) FACCBAPA.bin	12.6%	4
<u>Note:</u> 1. For TSB 24nm NAND Flash, adjust NVCCQ voltage & NAND output Driver Strength, or enable ODT might be necessary.								

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
<u>Toshiba</u>	MLC	64Gx8bit	TH58TEG9D2HBA89 (CEx4) TH58TEG9D2HBAS9 (CEx4)	8KB page 24nm Toggle 2.0 132-ball BGA (multi-LUN)	64GB	(2CH/2CE) FACCBFAA.bin	6.8%	1
					128GB	(4CH/2CE) FACCBCHA.bin	12.6%	2
<u>Note:</u> 1. For TSB 24nm NAND Flash, adjust NVCCQ voltage & NAND output Driver Strength, or enable ODT might be necessary.								

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	4Gx8bit	TC58NVG5H2HTA00 (CEx1) TC58NVG5H2HTA10 (CEx1)	8KB page 24nm Legacy 48-pin TSOP	4GB	(1CH/1CE) AGCBBAAA.bin	6.5%	1
					8GB	(2CH/1CE) AGCBBABA.bin	6.7%	2
					12GB	(3CH/1CE) AGCBBACA.bin	6.7%	3
					16GB	(4CH/1CE) AGCBBADA.bin	6.7%	4
						(2CH/2CE) AGCBBAFA.bin		
					32GB	(4CH/2CE) AGCBBAHA.bin	6.8%	8
						(2CH/4CE) AGCBBANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	8Gx8bit	TH58NVG6H2HTA20 (CEx2) TH58NVG6H2HTAK0 (CEx2)	8KB page 24nm Legacy 48-pin TSOP	8GB	(1CH/2CE) AGCBBAEA.bin	6.7%	1
					16GB	(2CH/2CE) AGCBBABA.bin	6.7%	2
					32GB	(4CH/2CE) AGCBBABA.bin	6.8%	4
						(2CH/4CE) AGCBBANA.bin		
					64GB	(4CH/4CE) AGCBBABA.bin	6.8%	8
		16Gx8bit	TH58NVG7H2HTA20 (CEx2) TH58NVG7H2HTAK0 (CEx2)	8KB page 24nm Legacy 48-pin TSOP (multi-LUN)	16GB	(1CH/2CE) AGCBBCEA.bin	6.7%	1
					32GB	(2CH/2CE) AGCBBCEA.bin	6.8%	2
					64GB	(4CH/2CE) AGCBBCHA.bin	6.8%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	1Gx8bit	TH58NVG3S0HTA00 (CEx1) TH58NVG3S0HTA10 (CEx1)	4KB page 24nm Legacy 48-pin TSOP	4GB	(4CH/1CE) AJCAAADA.bin	12.6%	4
						(2CH/2CE) AJCAAFAA.bin		
					8GB	(4CH/2CE) AJCAAHAH.bin	12.6%	8
						(2CH/4CE) AJCAAANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	1Gx8bit	TH58NVG3S0HBA16 (CEx1)	4KB page 24nm Legacy 60-ball BGA	4GB	(4CH/1CE) AJCAAADA.bin	12.6%	4
						(2CH/2CE) AJCAAFAA.bin		
					8GB	(4CH/2CE) AJCAAHAH.bin	12.6%	8
						(2CH/4CE) AJCAAANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	8Gx8bit	TH58TEG6H2HBA4C (CEx2) TH58TEG6H2HBAMC (CEx2)	8KB page 24nm Toggle 2.0 132-ball BGA	8GB	(2CH/1CE) FGCBBABA.bin	6.7%	1
					16GB	(4CH/1CE) FGCBBADA.bin	6.7%	2
						(2CH/2CE) FGCBBABA.bin		
					32GB	(4CH/2CE) FGCBBABA.bin	6.8%	4
						(2CH/4CE) FGCBBANA.bin		
					64GB	(4CH/4CE) FGCBBABA.bin	6.8%	8
	SLC	16Gx8bit	TH58TEG7H2HBA8C (CEx4) TH58TEG7H2HBASC (CEx4)	8KB page 24nm Toggle 2.0 132-ball BGA	16GB	(2CH/2CE) FGCBBABA.bin	6.7%	1
					32GB	(4CH/2CE) FGCBBABA.bin	6.8%	2
						(2CH/4CE) FGCBBANA.bin		
					64GB	(4CH/4CE) FGCBBABA.bin	6.8%	4
		32Gx8bit	TH58TEG8H2HBA89 (CEx4) TH58TEG8H2HBAS9 (CEx4)	8KB page 24nm Toggle 2.0 132-ball BGA (multi-LUN)	32GB	(2CH/2CE) FGCBBABA.bin	6.8%	1
					64GB	(4CH/2CE) FGCBBABA.bin	6.8%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	4Gx8bit	TH58TVG5S2FBA49 (CEx2) TH58TAG5S2FBA49 (CEx2)	8KB page 32nm Toggle 2.0 132-ball BGA	4GB	(2CH/1CE) FGCABABA.bin	12.6%	1
					8GB	(4CH/1CE) FGCABADA.bin	12.6%	2
						(2CH/2CE) FGCABAFA.bin		
					16GB	(4CH/2CE) FGCABAHA.bin	12.6%	4
						(2CH/4CE) FGCABANA.bin		
					32GB	(4CH/4CE) FGCABAPA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	0.5Gx8bit	TC58NVG2S0FTA00 (CEx1)	4KB page 32nm Legacy 48-pin TSOP	4GB	(4CH/2CE) AJBAAHAHA.bin	12.6%	8
						(2CH/4CE) AJBAAANA.bin		
		1Gx8bit	TC58NVG3S0FTA00 (CEx1) TC58NVG3S0FTA10 (CEx1)	4KB page 32nm Legacy 48-pin TSOP	4GB	(4CH/1CE) AJCAAADA.bin	12.6%	4
						(2CH/2CE) AJCAAFAA.bin		
					8GB	(4CH/2CE) AJCAAAHAHA.bin	12.6%	8
						(2CH/4CE) AJCAAANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Toshiba	SLC	2Gx8bit	TH58NVG4S0FTA20 (CEx2) TH58NVG4S0FTAK0 (CEx2)	4KB page 32nm Legacy 48-pin TSOP	4GB	(2CH/2CE) AJCAAFAA.bin	12.6%	2
					8GB	(4CH/2CE) AJCAAHAH.bin	12.6%	4
						(2CH/4CE) AJCAAANA.bin		
		4Gx8bit	TH58NVG5S0FTA20 (CEx2) TH58NVG5S0FTAK0 (CEx2)	4KB page 32nm Legacy 48-pin TSOP (multi-LUN)	16GB	(4CH/4CE) AJCAAPAA.bin	12.6%	8
					4GB	(1CH/2CE) AJCAABEA.bin	12.6%	1
					8GB	(2CH/2CE) AJCAABFA.bin	12.6%	2
					16GB	(4CH/2CE) AJCAABHA.bin	12.6%	4

3.2 Sandisk NAND Flash

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
<u>Sandisk</u>	MLC	8x8bit	SDTNQGBMA008G (CEx2)	8KB page 19nm Type A Legacy to Toggle 1.0 48-pin TSOP	8GB	(1CH/1CE) DBBDBAAA.bin	6.7%	1
					16GB	(2CH/1CE) DBBDBABA.bin	6.7%	2
					32GB	(4CH/1CE) DBBDBADA.bin	6.8%	4
						(2CH/2CE) DBBDBFAA.bin		
					64GB	(4CH/2CE) DBBDBAHA.bin	6.8%	8
						(2CH/4CE) DBBDBNAA.bin		
Note: 1. For SDK 19nm type A NAND Flash, suggest set NVCCQ to 3.3V.								

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Sandisk	MLC	8x8bit	SDTNQGAMA008G (CEx1)	8KB page 19nm Type C Legacy to Toggle 1.0 48-pin TSOP	8GB	(1CH/1CE) DBBCCAAA.bin	6.7%	1
					16GB	(2CH/1CE) DBBCCABA.bin	6.7%	2
					32GB	(4CH/1CE) DBBCCADA.bin	6.8%	4
						(2CH/2CE) DBBCCAFA.bin		
					64GB	(4CH/2CE) DBBCCAHA.bin	6.8%	8
						(2CH/4CE) DBBCCANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Sandisk	MLC	8Gx8bit	SDTNRGAMA008GK (CEx1)	16KB page 1Ynm A19 Legacy To Toggle 1.0 48-pin TSOP	8GB 10mA	(1CH/1CE) DFBCCAAA.bin	6.7%	1
					16GB 10mA	(2CH/1CE) DFBCCABA.bin	6.7%	2
					32GB 10mA	(4CH/1CE) DFBCCADA.bin	6.8%	4
						(2CH/2CE) DFBCCAFA.bin		
					64GB 10mA	(4CH/2CE) DFBCCAHA.bin	6.8%	8
						(2CH/4CE) DFBCCANA.bin		
		16Gx8bit	SDTNRGBMB016GK (CEx2)	16KB page 1Ynm A19 Legacy To Toggle 1.0 48-pin TSOP	16GB 10mA	(1CH/2CE) DFBCCAEA.bin	6.7%	1
					32GB 10mA	(2CH/2CE) DFBCCAFA.bin	6.8%	2
					64GB 10mA	(4CH/2CE) DFBCCAHA.bin	6.8%	4
						(2CH/4CE) DFBCCANA.bin		
					128GB 10mA	(4CH/4CE) DFBCCAPA.bin	12.6%	8

3.3 Intel NAND Flash

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	8Gx8bit	JS29F64G08ACMF3 (CEx1)	8KB page 20nm L84A ONFi 2.3 48-lead TSOP	8GB	(1CH/1CE) BDCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) BDCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) BDCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) BDCCBADA.bin	6.8%	4
						(2CH/2CE) BDCCBAFA.bin		
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	8
						(2CH/4CE) BDCCBANA.bin		
		16Gx8bit	JS29F16B08CCMF2 (CEx2) JS29F16B08CCMF3 (CEx2)	8KB page 20nm L84A ONFi 2.3 48-lead TSOP	16GB	(1CH/2CE) BDCCBAEA.bin	6.7%	1
					32GB	(2CH/2CE) BDCCBAFA.bin	6.8%	2
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	4
						(2CH/4CE) BDCCBANA.bin		
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	32Gx8bit	JS29F32B08JCMF3 (CEx4)	8KB page 20nm L84A ONFi 2.3 48-lead TSOP	32GB	(1CH/4CE) BDCCBAMA.bin	6.8%	1
					64GB	(2CH/4CE) BDCCBANA.bin	12.6%	2
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Intel	MLC	8Gx8bit	PF29F64G08LCMF2 (CEx1)	8KB page 20nm L84A ONFi 2.3 152-ball BGA	8GB	(1CH/1CE) BDCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) BDCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) BDCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) BDCCBADA.bin	6.8%	4
						(2CH/2CE) BDCCBAFA.bin		
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	8
						(2CH/4CE) BDCCBANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Intel	MLC	16Gx8bit	PF29F16B08MCMF2 (CEx2)	8KB page 20nm L84A ONFi 2.3 152-ball BGA	16GB	(2CH/1CE) BDCCBABA.bin	6.7%	1
					32GB	(4CH/1CE) BDCCBADA.bin	6.8%	2
						(2CH/2CE) BDCCBAFA.bin		
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	4
						(2CH/4CE) BDCCBANA.bin		
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	8
		32Gx8bit	PF29F32B08NCMF2 (CEx4)	8KB page 20nm L84A ONFi 2.3 152-ball BGA	32GB	(2CH/2CE) BDCCBAFA.bin	6.8%	1
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	2
						(2CH/4CE) BDCCBANA.bin		
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	4
		64Gx8bit	PF29F64B08PCMF2 (CEx8)	8KB page 20nm L84A ONFi 2.3 152-ball BGA	64GB	(2CH/4CE) BDCCBANA.bin	12.6%	1
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	2

Vendor	NAND Flash part number		Process	Cap.	Bin name	OP	ea
Intel	MLC	8Gx8bit	PF29F64G08LCMFS (CEx1)	16KB page 20nm L84C ONFi 3.0 132-ball BGA	8GB (1CH/1CE) CDADCAAA.bin	12.6%	1
					16GB (2CH/1CE) CDADCABA.bin	12.6%	2
					24GB (3CH/1CE) CDADCACA.bin	12.6%	3
					32GB (4CH/1CE) CDADCADA.bin	12.6%	4
					(2CH/2CE) CDADCAFA.bin		
					64GB (4CH/2CE) CDADCAHA.bin	12.6%	8
					(2CH/4CE) CDADCANA.bin		
		16Gx8bit	PF29F16B08MCMFS (CEx2)	16KB page 20nm L84C ONFi 3.0 132-ball BGA	16GB (2CH/1CE) CDADCABA.bin	12.6%	1
					32GB (4CH/1CE) CDADCADA.bin	12.6%	2
					(2CH/2CE) CDADCAFA.bin		
					64GB (4CH/2CE) CDADCAHA.bin	12.6%	4
					(2CH/4CE) CDADCANA.bin		
					128GB (4CH/4CE) CDADCAPA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	32Gx8bit	PF29F32B08NCMFS (CEx4)	16KB page 20nm L84C ONFi 3.0 132-ball BGA	32GB	(2CH/2CE) CDADCAFA.bin	12.6%	1
					64GB	(4CH/2CE) CDADCAHA.bin	12.6%	2
						(2CH/4CE) CDADCANA.bin		
					128GB	(4CH/4CE) CDADCAPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	32Gx8bit	PF29F32B08MCMF2 (CEx2)	16KB page 20nm L85A ONFi 3.0 152-ball BGA	32GB	(2CH/1CE) CDBDCABA.bin	6.8%	1
					64GB	(4CH/1CE) CDBDCADA.bin	6.8%	2
						(2CH/2CE) CDBDCABA.bin		
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	4
		64Gx8bit	PF29F64B08NCMF2 (CEx4)	16KB page 20nm L85A ONFi 3.0 152-ball BGA	64GB	(2CH/2CE) CDBDCAFA.bin	6.8%	1
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	16Gx8bit	PF29F16B08LCMF3 (CEx1)	16KB page 20nm L85A ONFi 2.3 152-ball BGA	16GB	(1CH/1CE) BDBDCAAA.bin	6.7%	1
					32GB	(2CH/1CE) BDBDCABA.bin	6.8%	2
					48GB	(3CH/1CE) BDBDCACA.bin	6.8%	3
					64GB	(4CH/1CE) BDBDCADA.bin	6.8%	4
						(2CH/2CE) BDBDCAFA.bin		
					128GB	(4CH/2CE) BDBDCAHA.bin	12.6%	8
		32Gx8bit	PF29F32B08MCMF3 (CEx2)	16KB page 20nm L85A ONFi 2.3 152-ball BGA	32GB	(2CH/1CE) BDBDCABA.bin	6.8%	1
					64GB	(4CH/1CE) BDBDCADA.bin	6.8%	2
						(2CH/2CE) BDBDCAFA.bin		
					128GB	(4CH/2CE) BDBDCAHA.bin	12.6%	4
		64Gx8bit	PF29F64B08NCMF3 (CEx4)	16KB page 20nm L85A ONFi 2.3 152-ball BGA	64GB	(2CH/2CE) BDBDCAFA.bin	6.8%	1
					128GB	(4CH/2CE) BDBDCAHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	16Gx8bit	PF29F16B08LCMFS (CEx1)	16KB page 20nm L85C ONFi 3.0 152-ball BGA	16GB	(1CH/1CE) CDBDCAAA.bin	6.7%	1
					32GB	(2CH/1CE) CDBDCABA.bin	6.8%	2
					48GB	(3CH/1CE) CDBDCACA.bin	6.8%	3
					64GB	(4CH/1CE) CDBDCADA.bin	6.8%	4
						(2CH/2CE) CDBDCAFA.bin		
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	8
		32Gx8bit	PF29F32B08MCMFS (CEx2)	16KB page 20nm L85C ONFi 3.0 152-ball BGA	32GB	(2CH/1CE) CDBDCABA.bin	6.8%	1
					64GB	(4CH/1CE) CDBDCADA.bin	6.8%	2
						(2CH/2CE) CDBDCAFA.bin		
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	4
		64Gx8bit	PF29F64B08NCMFS (CEx4)	16KB page 20nm L85C ONFi 3.0 152-ball BGA	64GB	(2CH/2CE) CDBDCAFA.bin	6.8%	1
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	8Gx8bit	JS29F64G08AAME1 (CEx1)	8KB page 25nm L74A Legacy 48-pin TSOP	8GB	(1CH/1CE) ADCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) ADCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) ADCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) ADCCBADA.bin	6.8%	4
						(2CH/2CE) ADCCBAFA.bin		
					64GB	(4CH/2CE) ADCCBAHA.bin	12.6%	8
						(2CH/4CE) ADCCBANA.bin		
Intel	MLC	16Gx8bit	JS29F16B08CAME1 (CEx2)	8KB page 25nm L74A Legacy 48-pin TSOP	16GB	(1CH/2CE) ADCCBAEA.bin	6.7%	1
					32GB	(2CH/2CE) ADCCBAFA.bin	6.8%	2
					64GB	(4CH/2CE) ADCCBAHA.bin	12.6%	4
						(2CH/4CE) ADCCBANA.bin		
					128GB	(4CH/4CE) ADCCBAPA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	32Gx8bit	JS29F32B08JAME1 (CEx4)	8KB page 25nm L74A Legacy 48-pin TSOP	32GB	(1CH/4CE) ADCCBAMA.bin	6.8%	1
					64GB	(2CH/4CE) ADCCBANA.bin	12.6%	2
					128GB	(4CH/4CE) ADCCBAPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	8Gx8bit	JS29F64G08ACME2 (CEx1) JS29F64G08ACME3 (CEx1)	8KB page 25nm L74A ONFi 2.2 48-lead TSOP	8GB	(1CH/1CE) BDCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) BDCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) BDCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) BDCCBADA.bin	6.8%	4
						(2CH/2CE) BDCCBAFA.bin		
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	8
						(2CH/4CE) BDCCBANA.bin		

Vendor	NAND Flash part number		Process	Cap.	Bin name	OP	ea
Intel	MLC	16Gx8bit	JS29F16B08CCME2 (CEx2) JS29F16B08CCME3 (CEx2)	8KB page 25nm L74A ONFi 2.2 48-lead TSOP	16GB (1CH/2CE) BDCCBAEA.bin	6.7%	1
					32GB (2CH/2CE) BDCCBAFA.bin	6.8%	2
					64GB (4CH/2CE) BDCCBAHA.bin (2CH/4CE) BDCCBANA.bin	12.6%	4
					128GB (4CH/4CE) BDCCBAPA.bin	12.6%	8
		32Gx8bit	JS29F32B08JCME2 (CEx4) JS29F32B08JCME2 (CEx4)	8KB page 25nm L74A ONFi 2.2 48-lead TSOP	32GB (1CH/4CE) BDCCBAMA.bin	6.8%	1
					64GB (2CH/4CE) BDCCBANA.bin	12.6%	2
					128GB (4CH/4CE) BDCCBAPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	64Gx8bit	PF29F64B08PCME1 (CEx8)	8KB page 25nm L74A	64GB	(2CH/4CE) ADCCBANA.bin	12.6%	1
				Legacy 152-Ball BGA	128GB	(4CH/4CE) ADCCBAPA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	64Gx8bit	JS29F32B08JCME1 (CEx4)	8KB page 25nm L74A Legacy 152-Ball BGA	32GB	(2CH/2CE) ADCCBAFA.bin	6.8%	1
					64GB	(4CH/2CE) ADCCBAHA.bin	12.6%	2
						(2CH/4CE) ADCCBANA.bin		
					128GB	(4CH/4CE) ADCCBAPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	16Gx8bit	PF29F16B08MCME2 (CEx2) PF29F16B16MCME1 (CEx2)	8KB page 25nm L74A ONFi 2.2 152-Ball BGA	16GB	(2CH/1CE) BDCCBABA.bin	6.7%	1
					32GB	(4CH/1CE) BDCCBADA.bin	6.8%	2
						(2CH/2CE) BDCCBAFA.bin		
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	4
						(2CH/4CE) BDCCBANA.bin		
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	8
		32Gx8bit	PF29F32B08NCME2 (CEx4) PF29F32B16NCME1 (CEx4)	8KB page 25nm L74A ONFi 2.2 152-Ball BGA	32GB	(2CH/2CE) BDCCBAFA.bin	6.8%	1
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	2
						(2CH/4CE) BDCCBANA.bin		
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	64Gx8bit	PF29F64B08OCME1 (CEx4)	8KB page 25nm L74A ONFi 2.2 152-Ball BGA (multi-LUN)	64GB	(2CH/2CE) BDCCBBFA.bin	12.6%	1
					128GB	(4CH/2CE) BDCCBBHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	MLC	64Gx8bit	PF29F64B08QCME1 (CEx2)	8KB page 25nm L74A ONFi 2.2 152-Ball BGA (4-LUN)	64GB	(2CH/1CE) BDCCBDBA.bin	12.6%	1
					128GB	(4CH/1CE) BDCCBDDA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	SLC	4Gx8bit	JS29F32G08ACNE1 (CEx1)	8KB page 25nm L74A Legacy 152-Ball BGA	4GB	(1CH/1CE) AHCBBAAA.bin	6.5%	1
					8GB	(2CH/1CE) AHCBBABA.bin	6.7%	2
					12GB	(3CH/1CE) AHCBBACA.bin	6.7%	3
					16GB	(4CH/1CE) AHCBBADA.bin	6.7%	4
						(2CH/2CE) AHCBBABA.bin		
					32GB	(4CH/2CE) AHCBBABA.bin	6.8%	8
						(2CH/4CE) AHCBBANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	SLC	32Gx8bit	PF29F32B16OCNE1 (CEx4)	8KB page 25nm L74A ONFi 2.2 152-Ball BGA (multi-LUN)	32GB	(2CH/2CE) BHCBBBFA.bin	6.8%	1
				64GB	(4CH/2CE) BHCBBBHA.bin	6.8%	2	

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Intel	SLC	8Gx8bit	JS29F64G08CCNE1 (CEx2) PF29F64G16MCNE1 (CEx2)	8KB page 25nm L74A ONFi 2.2 152-Ball BGA	8GB	(2CH/1CE) BHCBBABA.bin	6.7%	1
					16GB	(4CH/1CE) BHCBBADA.bin	6.7%	2
						(2CH/2CE) BHCBBABA.bin		
					32GB	(4CH/2CE) BHCBBABA.bin	6.8%	4
						(2CH/4CE) BHCBBANA.bin		
					64GB	(4CH/4CE) BHCBBABA.bin	6.8%	8
		16Gx8bit	JS29F16B08JCNE1 (CEx4) PF29F16B16NCNE1 (CEx4)	8KB page 25nm L74A ONFi 2.2 152-Ball BGA	16GB	(2CH/2CE) BHCBBABA.bin	6.7%	1
					32GB	(4CH/2CE) BHCBBABA.bin	6.8%	2
						(2CH/4CE) BHCBBANA.bin		
					64GB	(4CH/4CE) BHCBBABA.bin	6.8%	4

3.4 Micron NAND Flash

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	8Gx8bit	MT29F64G08CBABA (CEx1)	8KB page 20nm L84A Legacy 48-pin TSOP	8GB	(1CH/1CE) ADCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) ADCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) ADCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) ADCCBADA.bin	6.8%	4
						(2CH/2CE) ADCCBAFA.bin		
					64GB	(4CH/2CE) ADCCBAHA.bin	12.6%	8
						(2CH/4CE) ADCCBANA.bin		
Micron	MLC	16Gx8bit	MT29F128G08CFABA (CEx2)	8KB page 20nm L84A Legacy 48-pin TSOP	16GB	(1CH/2CE) ADCCBAEA.bin	6.7%	1
					32GB	(2CH/2CE) ADCCBAFA.bin	6.8%	2
					64GB	(4CH/2CE) ADCCBAHA.bin	12.6%	4
						(2CH/4CE) ADCCBANA.bin		
					128GB	(4CH/4CE) ADCCBAPA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	32Gx8bit	MT29F256G08CJABA (CEx2)	8KB page 20nm L84A Legacy 48-pin TSOP (multi-LUN)	32GB	(1CH/2CE) ADCCBBEA.bin	6.8%	1
					64GB	(2CH/2CE) ADCCBBFA.bin	12.6%	2
					128GB	(4CH/2CE) ADCCBBHA.bin	13.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	8Gx8bit	MT29F64G08CBABB (CEx1) MT29F64G08CBCBB (CEx1) MT29F64G08CBEBB (CEx1)	8KB page 20nm L84A ONFi 2.3 48-pin TSOP	8GB	(1CH/1CE) BDCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) BDCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) BDCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) BDCCBADA.bin	6.8%	4
						(2CH/2CE) BDCCBAFA.bin		
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	8
						(2CH/4CE) BDCCBANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	16Gx8bit	MT29F128G08CFABB (CEx2) MT29F128G08CECBB (CEx2)	8KB page 20nm L84A ONFi 2.3 48-pin TSOP	16GB	(1CH/2CE) BDCCBAEA.bin	6.7%	1
					32GB	(2CH/2CE) BDCCBAFA.bin	6.8%	2
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	4
						(2CH/4CE) BDCCBANA.bin		
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	8
		32Gx8bit	MT29F256G08CJABB (CEx2) MT29F256G08CKCBB (CEx2)	8KB page 20nm L84A ONFi 2.3 48-pin TSOP (multi-LUN)	32GB	(1CH/2CE) BDCCBBEA.bin	6.8%	1
					64GB	(2CH/2CE) BDCCBBFA.bin	12.6%	2
					128GB	(4CH/2CE) BDCCBBHA.bin	12.6%	4
		32Gx8bit	MT29F256G08CMCBB (CEx4)	8KB page 20nm L84A ONFi 2.3 48-pin TSOP	32GB	(1CH/4CE) BDCCBAMA.bin	6.8%	1
					64GB	(2CH/4CE) BDCCBANA.bin	12.6%	2
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	8Gx8bit	MT29F64G08CBCDB (CEx1) MT29F64G08CBEDB (CEx1)	16KB page 20nm L84C ONFi 3.0 132-ball BGA	8GB	(1CH/1CE) CDADCAAA.bin	12.6%	1
					16GB	(2CH/1CE) CDADCABA.bin	12.6%	2
					24GB	(3CH/1CE) CDADCACA.bin	12.6%	3
					32GB	(4CH/1CE) CDADCADA.bin	12.6%	4
						(2CH/2CE) CDADCAFA.bin		
					64GB	(4CH/2CE) CDADCAHA.bin	12.6%	8
						(2CH/4CE) CDADCANA.bin		
					16Gx8bit	MT29F128G08CECDB (CEx2) MT29F128G08CEEDB (CEx2)	16KB page 20nm L84C ONFi 3.0 132-ball BGA	16GB
		32GB	(4CH/1CE) CDADCADA.bin	12.6%				2
			(2CH/2CE) CDADCAFA.bin					
		64GB	(4CH/2CE) CDADCAHA.bin	12.6%				4
			(2CH/4CE) CDADCANA.bin					
		128GB	(4CH/4CE) CDADCAPA.bin	12.6%				8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	32Gx8bit	MT29F256G08CMCDB (CEx4) MT29F256G08CMEDB (CEx4)	16KB page 20nm L84C ONFi 3.0 132-ball BGA	32GB	(2CH/2CE) CDADCAFA.bin	12.6%	1
					64GB	(4CH/2CE) CDADCAHA.bin	12.6%	2
						(2CH/4CE) CDADCANA.bin		
					128GB	(4CH/4CE) CDADCAPA.bin	12.6%	4
		32Gx8bit	MT29F256G08CKCDB (CEx2) MT29F256G08CKEDB (CEx2)	16KB page 20nm L84C ONFi 3.0 132-ball BGA (multi-LUN)	32GB	(2CH/1CE) CDADCCBA.bin	12.6%	1
					64GB	(4CH/1CE) CDADCCDA.bin	12.6%	2
						(2CH/2CE) CDADCCFA.bin		
					128GB	(4CH/2CE) CDADCCHA.bin	12.6%	4
		64Gx8bit	MT29F512G08CUCDB (CEx4) MT29F512G08CUEDB (CEx4)	16KB page 20nm L84C ONFi 3.0 132-ball BGA (multi-LUN)	64GB	(2CH/2CE) CDADCCFA.bin	12.6%	1
					128GB	(4CH/2CE) CDADCCHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	16Gx8bit	MT29F128G08CBCAB (CEx1) MT29F128G08CBEAB (CEx1)	16KB page 20nm L85A ONFi 3.0 152-ball BGA	16GB	(1CH/1CE) CDBDCAAA.bin	6.7%	1
					32GB	(2CH/1CE) CDBDCABA.bin	6.8%	2
					48GB	(3CH/1CE) CDBDCACA.bin	6.8%	3
					64GB	(4CH/1CE) CDBDCADA.bin	6.8%	4
						(2CH/2CE) CDBDCAFA.bin		
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	8
		32Gx8bit	MT29F256G08CECAB (CEx2) MT29F256G08CEEAB (CEx2)	16KB page 20nm L85A ONFi 3.0 152-ball BGA	32GB	(2CH/1CE) CDBDCABA.bin	6.8%	1
					64GB	(4CH/1CE) CDBDCADA.bin	6.8%	2
						(2CH/2CE) CDBDCAFA.bin		
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	64Gx8bit	MT29F512G08CMCAB (CEx4) MT29F512G08CMEAB (CEx4)	16KB page 20nm L85A	64GB	(2CH/2CE) CDBDCAFA.bin	6.8%	1
				ONFi 3.0 152-ball BGA	128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	2
		64Gx8bit	MT29F512G08CKCAB (CEx2) MT29F512G08CKEAB (CEx2)	16KB page 20nm L85A	64GB	(2CH/1CE) CDBDCBBA.bin	6.8%	1
				ONFi 3.0 152-ball BGA (multi-LUN)	128GB	(4CH/1CE) CDBDCBDA.bin	12.6%	2
		128Gx8bit	MT29F1TG08CUCAB (CEx4) MT29F1TG08CUEAB (CEx4)	16KB page 20nm L85A	128GB	(2CH/2CE) CDBDCBFA.bin	12.6%	1
				ONFi 3.0 152-ball BGA (multi-LUN)				

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	16Gx8bit	MT29F128G08CBCBB (CEx1) MT29F128G08CBEBB (CEx1)	16KB page 20nm L85C ONFi 3.0 152-ball BGA	16GB	(1CH/1CE) CDBDCAAA.bin	6.7%	1
					32GB	(2CH/1CE) CDBDCABA.bin	6.8%	2
					48GB	(3CH/1CE) CDBDCACA.bin	6.8%	3
					64GB	(4CH/1CE) CDBDCADA.bin	6.8%	4
						(2CH/2CE) CDBDCAFA.bin		
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	8
		32Gx8bit	MT29F256G08CECBB (CEx2)	16KB page 20nm L85C ONFi 3.0 152-ball BGA	32GB	(2CH/1CE) CDBDCABA.bin	6.8%	1
					64GB	(4CH/1CE) CDBDCADA.bin	6.8%	2
						(2CH/2CE) CDBDCAFA.bin		
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	4
		64Gx8bit	MT29F512G08CMCBB (CEx4)	16KB page 20nm L85C ONFi 3.0 152-ball BGA	64GB	(2CH/2CE) CDBDCAFA.bin	6.8%	1
					128GB	(4CH/2CE) CDBDCAHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	64Gx8bit	MT29F512G08CKCBB (CEx2)	16KB page 20nm L85C ONFi 3.0 152-ball BGA (multi-LUN)	64GB	(2CH/1CE) CDBDCCBA.bin	6.8%	1
					128GB	(4CH/1CE) CDBDCCDA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	8Gx8bit	MT29F64G08CBAAA (CEx1)	8KB page 25nm L74A Legacy 48-pin TSOP	8GB	(1CH/1CE) ADCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) ADCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) ADCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) ADCCBADA.bin	6.8%	4
						(2CH/2CE) ADCCBAFA.bin		
					64GB	(4CH/2CE) ADCCBAHA.bin	12.6%	8
						(2CH/4CE) ADCCBANA.bin		

Vendor	NAND Flash part number		Process	Cap.	Bin name	OP	ea
Micron	MLC	16Gx8bit	MT29F128G08CFAAA (CEx2)	8KB page 25nm L74A Legacy 48-pin TSOP	16GB (1CH/2CE) ADCCBAEA.bin	6.7%	1
					32GB (2CH/2CE) ADCCBAFA.bin	6.8%	2
					64GB (4CH/2CE) ADCCBAHA.bin (2CH/4CE) ADCCBANA.bin	12.6%	4
					128GB (4CH/4CE) ADCCBAPA.bin	12.6%	8
		32Gx8bit	MT29F256G08CJAAA (CEx2)	8KB page 25nm L74A Legacy 48-pin TSOP (multi-LUN)	32GB (1CH/2CE) ADCCBBEA.bin	6.8%	1
					64GB (2CH/2CE) ADCCBBFA.bin	12.6%	2
					128GB (4CH/2CE) ADCCBBHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	8Gx8bit	MT29F64G08CBAAB (CEx1) MT29F64G08CBCAB (CEx1)	8KB page 25nm L74A ONFi 2.2 48-pin TSOP	8GB	(1CH/1CE) BDCCBAAA.bin	6.7%	1
					16GB	(2CH/1CE) BDCCBABA.bin	6.7%	2
					24GB	(3CH/1CE) BDCCBACA.bin	6.8%	3
					32GB	(4CH/1CE) BDCCBADA.bin	6.8%	4
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	8
		16Gx8bit	MT29F128G08CFAAB (CEx2)	8KB page 25nm L74A ONFi 2.2 48-pin TSOP	16GB	(1CH/2CE) BDCCBAEA.bin	6.7%	1
					32GB	(2CH/2CE) BDCCBAFA.bin	6.8%	2
					64GB	(4CH/2CE) BDCCBAHA.bin	12.6%	4
					128GB	(4CH/4CE) BDCCBAPA.bin	12.6%	8
		32Gx8bit	MT29F256G08CJAAB (CEx2)	8KB page 25nm L74A ONFi 2.2 48-pin TSOP (multi-LUN)	32GB	(1CH/2CE) BDCCBBEA.bin	6.8%	1
					64GB	(2CH/2CE) BDCCBBFA.bin	12.6%	2
					128GB	(4CH/2CE) BDCCBBHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	4Gx8bit	MT29F32G08CBADA (CEx1)	8KB page 25nm L83A Legacy 48-pin TSOP	4GB	(1CH/1CE) ADBCBAAA.bin	6.5%	1
					8GB	(2CH/1CE) ADBCBABA.bin	6.7%	2
					12GB	(3CH/1CE) ADBCBACA.bin	6.7%	3
					16GB	(4CH/1CE) ADBCBADA.bin	6.7%	4
						(2CH/2CE) ADBCBAFA.bin		
					32GB	(4CH/2CE) ADBCBAHA.bin	6.8%	8
						(2CH/4CE) ADBCBANA.bin		
		8Gx8bit	MT29F64G08CFADA (CEx2)	8KB page 25nm L83A Legacy 48-pin TSOP	8GB	(1CH/2CE) ADBCBAEA.bin	6.7%	1
					16GB	(2CH/2CE) ADBCBAFA.bin	6.7%	2
					32GB	(4CH/2CE) ADBCBAHA.bin	6.8%	4
						(2CH/4CE) ADBCBANA.bin		
					64GB	(4CH/4CE) ADBCBAPA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	4Gx8bit	MT29F32G08CBADB (CEx1)	8KB page 25nm L83A ONFi 2.3 48-pin TSOP	4GB	(1CH/1CE) BDBCBAAB.bin	6.5%	1
					8GB	(2CH/1CE) BDBCBAAB.bin	6.7%	2
					12GB	(3CH/1CE) BDBCBAAB.bin	6.7%	3
					16GB	(4CH/1CE) BDBCBAAB.bin	6.7%	4
						(2CH/2CE) BDBCBAFA.bin		
					32GB	(4CH/2CE) BDBCBAHA.bin	6.8%	8
						(2CH/4CE) BDBCBAHA.bin		
		8Gx8bit	MT29F64G08CFADB (CEx2) MT29F64G08CEADB (CEx2)	8KB page 25nm L83A ONFi 2.3 48-pin TSOP	8GB	(1CH/2CE) BDBCBAEA.bin	6.7%	1
					16GB	(2CH/2CE) BDBCBAFA.bin	6.7%	2
					32GB	(4CH/2CE) BDBCBAHA.bin	6.8%	4
					64GB	(4CH/4CE) BDBCBAHA.bin	12.6%	8
		16Gx8bit	MT29F128G08CMADB (CEx4)	8KB page 25nm L83A ONFi 2.3 48-pin TSOP	16GB	(1CH/4CE) BDBCBAHA.bin	6.7%	1
					32GB	(2CH/4CE) BDBCBAHA.bin	6.8%	2
					64GB	(4CH/4CE) BDBCBAHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	32Gx8bit	MT29F256G08CUCDB (CEx4)	8KB page 25nm L83A ONFi 2.3 48-pin TSOP (multi-LUN)	32GB	(1CH/4CE) BDBCBCMA.bin	6.8%	1
					64GB	(2CH/4CE) BDBCBCNA.bin	12.6%	2
					128GB	(4CH/4CE) BDBCBCPA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	MLC	8Gx8bit	MT29F64G08CFACB (CEx1) MT29F64G08CECCB (CEx1)	4KB page 25nm L73A ONFi 2.2 48-pin TSOP	8GB	(1CH/1CE) BDCCAAAA.bin	6.7%	1
					16GB	(2CH/1CE) BDCCAABA.bin	6.7%	2
					32GB	(4CH/1CE) BDCCAADA.bin	6.8%	4
						(2CH/2CE) BDCCAAFA.bin		
					64GB	(4CH/2CE) BDCCAAHA.bin	12.6%	8
						(2CH/4CE) BDCCAANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	SLC	8Gx8bit	MT29F64G08ABCAB (CEx1)	16KB page 20nm M84A ONFi 3.0 152-ball BGA	8GB	(1CH/1CE) CHBCCAAA.bin	6.7%	1
					16GB	(2CH/1CE) CHBCCABA.bin	6.7%	2
					24GB	(3CH/1CE) CHBCCACA.bin	6.8%	3
					32GB	(4CH/1CE) CHBCCADA.bin	6.8%	4
						(2CH/2CE) CHBCCAFA.bin		
					64GB	(4CH/2CE) CHBCCAHA.bin	6.8%	8
						(2CH/4CE) CHBCCANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	SLC	16Gx8bit	MT29F128G08AECAB (CEx2)	16KB page 20nm M84A ONFi 3.0 152-ball BGA	16GB	(2CH/1CE) CHBCCABA.bin	6.7%	1
					32GB	(4CH/1CE) CHBCCADA.bin	6.8%	2
						(2CH/2CE) CHBCCAFA.bin		
					64GB	(4CH/2CE) CHBCCAHA.bin	6.8%	4
						(2CH/4CE) CHBCCANA.bin		
					128GB	(4CH/4CE) CHBCCAPA.bin	12.6%	8
		32Gx8bit	MT29F256G08AMCAB (CEx4)	16KB page 20nm M84A ONFi 3.0 152-ball BGA	32GB	(2CH/2CE) CHBCCAFA.bin	6.8%	1
					64GB	(4CH/2CE) CHBCCAHA.bin	6.8%	2
						(2CH/4CE) CHBCCANA.bin		
					128GB	(4CH/4CE) CHBCCAPA.bin	12.6%	4
		32Gx8bit	MT29F256G08AKCAB (CEx2)	16KB page 20nm M84A ONFi 3.0 152-ball BGA (multi-LUN)	32GB	(2CH/1CE) CHBCCBBA.bin	6.8%	1
					64GB	(4CH/1CE) CHBCCBDA.bin	6.8%	2
						(2CH/2CE) CHBCCBFA.bin		
					128GB	(4CH/2CE) CHBCCBHA.bin	12.6%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Micron	SLC	64Gx8bit	MT29F512G08AUCAB (CEx4)	16KB page 20nm M84A ONFi 3.0 152-ball BGA (multi-LUN)	64GB	(2CH/2CE) CHBCCBFA.bin	6.8%	1
					128GB	(4CH/2CE) CHBCCBHA.bin	12.6%	2

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	4Gx8bit	MT29F32G08ABAAA (CEX1)	8KB page 25nm M73A Legacy 48-pin TSOP	4GB	(1CH/1CE) AHCBBAAA.bin	6.5%	1
					8GB	(2CH/1CE) AHCBBABA.bin	6.7%	2
					12GB	(3CH/1CE) AHCBBACA.bin	6.7%	3
					16GB	(4CH/1CE) AHCBBADA.bin	6.7%	4
						(2CH/2CE) AHCBBABA.bin		
					32GB	(4CH/2CE) AHCBBABA.bin	6.8%	8
						(2CH/4CE) AHCBBANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	8Gx8bit	MT29F64G08AFAAA (CEx2)	8KB page 25nm M73A Legacy 48-pin TSOP	8GB	(1CH/2CE) AHCBBAEA.bin	6.7%	1
					16GB	(2CH/2CE) AHCBBABA.bin	6.7%	2
					32GB	(4CH/2CE) AHCBBABA.bin	6.8%	4
						(2CH/4CE) AHCBBANA.bin		
					64GB	(4CH/4CE) AHCBBABA.bin	6.8%	8
		16Gx8bit	MT29F128G08AJAAA (CEx2) MT29F128G08AKAAA (CEx2)	8KB page 25nm M73A Legacy 48-pin TSOP (multi-LUN)	16GB	(1CH/2CE) AHCBBBEA.bin	6.7%	1
					32GB	(2CH/2CE) AHCBBBFA.bin	6.8%	2
					64GB	(4CH/2CE) AHCBBBHA.bin	6.8%	4
		16Gx8bit	MT29F128G08AMAAA (CEx4)	8KB page 25nm M73A Legacy 48-pin TSOP	16GB	(1CH/4CE) AHCBBAMA.bin	6.7%	1
					32GB	(2CH/4CE) AHCBBANA.bin	6.8%	2
					64GB	(4CH/4CE) AHCBBABA.bin	6.8%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	4Gx8bit	MT29F32G08ABCAB (CEx1)	8KB page 25nm M73A ONFi 2.2 48-pin TSOP	4GB	(1CH/1CE) BHCBBAAA.bin	6.5%	1
					8GB	(2CH/1CE) BHCBBABA.bin	6.7%	2
					12GB	(3CH/1CE) BHCBBACA.bin	6.7%	3
					16GB	(4CH/1CE) BHCBBADA.bin	6.7%	4
						(2CH/2CE) BHCBBABA.bin		
					32GB	(4CH/2CE) BHCBBABA.bin	6.8%	8
						(2CH/4CE) BHCBBANA.bin		
		8Gx8bit	MT29F64G08AECAB (CEx2)	8KB page 25nm M73A ONFi 2.2 48-pin TSOP	8GB	(1CH/2CE) BHCBBAEA.bin	6.7%	1
					16GB	(2CH/2CE) BHCBBABA.bin	6.7%	2
					32GB	(4CH/2CE) BHCBBABA.bin	6.8%	4
						(2CH/4CE) BHCBBANA.bin		
					64GB	(4CH/4CE) BHCBBABA.bin	6.8%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	16Gx8bit	MT29F128G08AKCAB (CEx2)	8KB page 25nm M73A ONFi 2.2 48-pin TSOP (multi-LUN)	16GB	(1CH/2CE) BHCBBBEA.bin	6.7%	1
					32GB	(2CH/2CE) BHCBBBFA.bin	6.8%	2
					64GB	(4CH/2CE) BHCBBBHA.bin	6.8%	4
		16Gx8bit	MT29F128G08AMCAB (CEx4)	8KB page 25nm M73A ONFi 2.2 48-pin TSOP	16GB	(1CH/4CE) BHCBBAMA.bin	6.7%	1
					32GB	(2CH/4CE) BHCBBANA.bin	6.8%	2
					64GB	(4CH/4CE) BHCBBAPA.bin	6.8%	4

Vendor	NAND Flash part number		Process	Cap.	Bin name	OP	Ea
Micron	SLC	2Gx8bit	MT29F16G08ABACA (CEx1) 4KB page 25nm M72A Legacy 48-pin TSOP	4GB	(2CH/1CE) AHCBAABA.bin	6.5%	2
				8GB	(4CH/1CE) AHCBAADA.bin	6.7%	4
					(2CH/2CE) AHCBAABA.bin		
				16GB	(4CH/2CE) AHCBAABA.bin	6.7%	8
					(2CH/4CE) AHCBAANA.bin		
		4Gx8bit	MT29F32G08AFACA (CEx2) 4KB page 25nm M72A Legacy 48-pin TSOP	4GB	(1CH/2CE) AHCBAABA.bin	6.5%	1
				8GB	(2CH/2CE) AHCBAABA.bin	6.7%	2
				16GB	(4CH/2CE) AHCBAABA.bin	6.7%	4
					(2CH/4CE) AHCBAANA.bin		
				32GB	(4CH/4CE) AHCBAAPA.bin	6.8%	8

Vendor	NAND Flash part number		Process	Cap.	Bin name	OP	Ea
Micron	SLC	2Gx8bit	MT29F16G08ABCCB (CEx1)	4KB page 25nm M72A ONFi 2.2 48-pin TSOP	4GB (2CH/1CE) BHCBAABA.bin	6.5%	2
					8GB (4CH/1CE) BHCBAADA.bin	6.7%	4
					(2CH/2CE) BHCBAafa.bin		
					16GB (4CH/2CE) BHCBAaHA.bin	6.7%	8
					(2CH/4CE) BHCBAANA.bin		
		4Gx8bit	MT29F32G08AECCB (CEx2)	4KB page 25nm M72A ONFi 2.2 48-pin TSOP	4GB (1CH/2CE) BHCBAABA.bin	6.5%	1
					8GB (2CH/2CE) BHCBAafa.bin	6.7%	2
					16GB (4CH/2CE) BHCBAaHA.bin	6.7%	4
					(2CH/4CE) BHCBAANA.bin		
					32GB (4CH/4CE) BHCBAAPA.bin	6.8%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	1Gx8bit	MT29F8G08ABACA (CEx1) MT29F8G16ABACA (CEx1) MT29F8G08ABBCA (CEx1) MT29F8G16ABBCA (CEx1)	4KB page 25nm M71M Legacy 48-pin TSOP	4GB	(4CH/1CE) AHCAAADA.bin	12.6%	4
						(2CH/2CE) AHCAAFAA.bin		
					8GB	(4CH/2CE) AHCAAAHA.bin	12.6%	8
						(2CH/4CE) AHCAANA.bin		
		2Gx8bit	MT29F16G08ADACA (CEx1) MT29F16G16ADACA (CEx1) MT29F16G08ADBCA (CEx1) MT29F16G16ADBCA (CEx1)	4KB page 25nm M71M Legacy 48-pin TSOP (multi-LUN)	4GB	(2CH/1CE) AHCAABBA.bin	12.6%	2
						(4CH/1CE) AHCAABDA.bin		
					8GB	(2CH/2CE) AHCAABFA.bin	12.6%	4
						(4CH/2CE) AHCAABDA.bin		
					16GB	(2CH/4CE) AHCAABNA.bin	12.6%	8

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	2Gx8bit	MT29F16G08ABABA (CEx1)	4KB page 34nm Legacy 48-pin TSOP	4GB	(2CH/1CE) AHCBAABA.bin	6.5%	2
					8GB	(4CH/1CE) AHCBAADA.bin	6.7%	4
						(2CH/2CE) AHCBAABA.bin		
					16GB	(4CH/2CE) AHCBAABA.bin	6.7%	8
						(2CH/4CE) AHCBAANA.bin		
		4Gx8bit	MT29F32G08AFABA (CEx2)	4KB page 34nm Legacy 48-pin TSOP	4GB	(1CH/2CE) AHCBAAEA.bin	6.5%	1
					8GB	(2CH/2CE) AHCBAABA.bin	6.7%	2
					16GB	(4CH/2CE) AHCBAABA.bin	6.7%	4
						(2CH/4CE) AHCBAANA.bin		
					32GB	(4CH/4CE) AHCBAAPA.bin	6.8%	8
		8Gx8bit	MT29F64G08AMABA (CEx4)	4KB page 34nm Legacy 48-pin TSOP	8GB	(1CH/4CE) AHCBAAMA.bin	6.7%	1
					16GB	(2CH/4CE) AHCBAANA.bin	6.7%	2
					32GB	(4CH/4CE) AHCBAAPA.bin	6.8%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	8Gx8bit	MT29F64G08AJABA (CEx2) MT29F64G08AKABA (CEx2)	4KB page 34nm Legacy 48-pin TSOP (multi-LUN)	8GB	(1CH/2CE) AHCBAABEA.bin	6.7%	1
					16GB	(2CH/2CE) AHCBAABFA.bin	6.7%	2
					32GB	(4CH/2CE) AHCBAABHA.bin	6.8%	4

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	2Gx8bit	MT29F16G08ABCBB (CEx1)	4KB page 34nm ONFi 2.1 48-pin TSOP	4GB	(2CH/1CE) BHCBAABA.bin	6.5%	2
					8GB	(4CH/1CE) BHCBAADA.bin	6.7%	4
						(2CH/2CE) BHCBAABA.bin		
					16GB	(4CH/2CE) BHCBAABA.bin	6.7%	8
						(2CH/4CE) BHCBAANA.bin		

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	Ea
Micron	SLC	4Gx8bit	MT29F32G08AECBB (CEx2)	4KB page 34nm ONFi 2.1 48-pin TSOP	4GB	(1CH/2CE) BHCBAAEA.bin	6.5%	1
					8GB	(2CH/2CE) BHCBAafa.bin	6.7%	2
					16GB	(4CH/2CE) BHCBAaHA.bin	6.7%	4
						(2CH/4CE) BHCBAANA.bin		
					32GB	(4CH/4CE) BHCBAAPA.bin	6.8%	8
		8Gx8bit	MT29F64G08AMCBB (CEx4)	4KB page 34nm ONFi 2.1 48-pin TSOP	8GB	(1CH/4CE) BHCBAAMA.bin	6.7%	1
					16GB	(2CH/4CE) BHCBAANA.bin	6.7%	2
					32GB	(4CH/4CE) BHCBAAPA.bin	6.8%	4
		8Gx8bit	MT29F64G08AKCBB (CEx2)	4KB page 34nm ONFi 2.1 48-pin TSOP (multi-LUN)	8GB	(1CH/2CE) BHCBAaEA.bin	6.7%	1
					16GB	(2CH/2CE) BHCBAaFA.bin	6.7%	2
					32GB	(4CH/2CE) BHCBAaHA.bin	6.8%	4

3.5 Hynix NAND Flash

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
Hynix	MLC	16Gx8bit	H27QDG8UDA5R (CEx2)	8KB page 20nm A-Die ONFi 2.2 132-ball BGA	16GB	(2CH/1CE) BLCCBABA.bin	6.7%	1
					32GB	(4CH/1CE) BLCCBADA.bin	6.8%	2
						(2CH/2CE) BLCCBAFA.bin		
					64GB	(4CH/2CE) BLCCBAHA.bin	12.6%	4
						(2CH/4CE) BLCCBANA.bin		
					128GB	(4CH/4CE) BLCCBAPA.bin	12.6%	8
		32Gx8bit	H27QEG8VEA5R (CEx4)	8KB page 20nm A-Die ONFi 2.2 132-ball BGA (4-LUN)	32GB	(2CH/2CE) BLACBDFA.bin	6.8%	1
					64GB	(4CH/2CE) BLACBDHA.bin	12.6%	2
						(2CH/4CE) BLACBDNA.bin		

Vendor	NAND Flash part number		Process	Cap.	Bin name	OP	ea
Hynix	MLC	16Gx8bit	H27QDGDUDBLR (CEx2)	16KB page 20nm B-Die ONFi 2.2 132-ball BGA	16GB (2CH/1CE) BLBCCABA.bin	6.7%	1
					32GB (4CH/1CE) BLBCCADA.bin	6.8%	2
					(2CH/2CE) BLBCCAFA.bin		
					64GB (4CH/2CE) BLBCCAHA.bin	6.8%	4
					(2CH/4CE) BLBCCANA.bin		
					128GB (4CH/4CE) BLBCCAPA.bin	12.6%	8
		32Gx8bit	H27QEGDVEB5R (CEx4)	16KB page 20nm B-Die ONFi 2.2 132-ball BGA	32GB (2CH/2CE) BLBCCAFA.bin	6.8%	1
					64GB (4CH/2CE) BLBCCAHA.bin	6.8%	2
					(2CH/4CE) BLBCCANA.bin		
					128GB (4CH/4CE) BLBCCAPA.bin	12.6%	4

Note:

1. For H27QEGDVEB5R NAND Flash, suggest set NVCCQ to 3.3V.

Vendor	NAND Flash part number			Process	Cap.	Bin name	OP	ea
<u>Hynix</u>	MLC	64Gx8bit	H27QFGDYEB5R (CEx8)	16KB page	64GB	(2CH/4CE)	6.8%	1
				20nm B-Die		BLBCCANA.bin		
		64Gx8bit	H27QFGDYEBOR (CEx4)	ONFi 2.2	128GB	(4CH/4CE)	12.6%	2
				132-ball BGA		BLBCCAPA.bin		
				16KB page	64GB	(2CH/2CE)	6.8%	1
				20nm B-Die		CLBCCCFA.bin		
				ONFi 3.0	128GB	(4CH/2CE)	12.6%	2
				132-ball BGA		CLBCCCHA.bin		
				(multi-LUN)				
<u>Note:</u>								
1. For H27QFGDYEBOR NAND Flash, suggest set NVCCQ to 1.91V ~ 1.94V.								

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