



TDK Corporation
Flash Memory Applied Device Business

2-15-7, Higashi-Ohwada, Ichikawa-shi,
Chiba, Japan

Product Change Notice

TDK PCN: AC-TDK-128-009-002-1

Date: Dec. 22th, 2023

To: TCA Distributor

Type of Change:

NAND flash memory Change

Title of Change

Change due to the EOL of KIOXIA's BiCS4 NAND flash memory

Description of Change:

1. NAND flash memory: Kioxia BiCS4 TLC -> Kioxia BiCS5 TLC

[Performance]

It is judged that the speed before and after the flash memory change is the same level and there is no influence on the performance due to the flash memory change.

(Refer to the attached document "1. Evaluation items and results")

Reasons for Change

Due to notification from KIOXIA, BiCS4 TLC NAND flash memory will be EOL.

TDK plans to switch the KIOXIA BiCS4 TLC NAND flash memory implemented in module products to BiCS5 TLC NAND flash memory.

Product Affected:

Formfactor	Current TDK Product Number	Recommended TDK Product Number
CFast Card	CAT2A032GKKBCA00EAA0	CAT2A032GKMBWA00EAA0
	CAT2A064GKKDCA00EAA0	CAT2A064GKMDWA00EAA0
	CAT2A128GKKDCA00EAA0	CAT2A128GKMDWA00EAA0
	CAT2A256GKKDCA00EAA0	CAT2A256GKMDWA00EAA0
	CAT2A100GKJBCA00EAA0	CAT2A100GKLBWA00EAA0
	CAT2A200GKJDCA00EAA0	CAT2A200GKLDWA00EAA0
	CAT2A400GKJDCA00EAA0	CAT2A400GKLDWA00EAA0
	CAT2A800GKJDCA00EAA0	CAT2A800GKLDWA00EAA0
2.5inch	SDT2A032GKKBCAA0ESA0	SDT2A032GKMBWAA0ESA0
	SDT2A064GKKDCAA0ESA0	SDT2A064GKMDWAA0ESA0
	SDT2A128GKKDCAA0ESA0	SDT2A128GKMDWAA0ESA0
	SDT2A256GKKDCAA0ESA0	SDT2A256GKMDWAA0ESA0
	SDT2A512GKKDCAA0ESA0	SDT2A512GKMDWAA0ESA0
	SDT2A100GKJBCAA0ESA0	SDT2A100GKLBWAA0ESA0
	SDT2A200GKJDCAA0ESA0	SDT2A200GKLDWAA0ESA0
	SDT2A400GKJDCAA0ESA0	SDT2A400GKLDWAA0ESA0
	SDT2A800GKJDCAA0ESA0	SDT2A800GKLDWAA0ESA0
	SDT2A1R6TKJDCAA0ESA0	SDT2A1R6TKLDWAA0ESA0

Formfactor	Current TDK Product Number	Recommended TDK Product Number
Half Slim	SHT2A032GKKBCA00ESA0	SHT2A032GKMBWA00ESA0
	SHT2A064GKKDCA00ESA0	SHT2A064GKMDWA00ESA0
	SHT2A128GKKDCA00ESA0	SHT2A128GKMDWA00ESA0
	SHT2A256GKKDCA00ESA0	SHT2A256GKMDWA00ESA0
	SHT2A512GKKDCA00ESA0	SHT2A512GKMDWA00ESA0
	SHT2A100GKJBCA00ESA0	SHT2A100GKLBWA00ESA0
	SHT2A200GKJDCA00ESA0	SHT2A200GKLDWA00ESA0
	SHT2A400GKJDCA00ESA0	SHT2A400GKLDWA00ESA0
	SHT2A800GKJDCA00ESA0	SHT2A800GKLDWA00ESA0
	SHT2A1R6TKJDCA00ESA0	SHT2A1R6TKLDWA00ESA0
mSATA	SMT2A032GKKBCA00ESA0	SMT2A032GKMBWA00ESA0
	SMT2A064GKKDCA00ESA0	SMT2A064GKMDWA00ESA0
	SMT2A128GKKDCA00ESA0	SMT2A128GKMDWA00ESA0
	SMT2A256GKKDCA00ESA0	SMT2A256GKMDWA00ESA0
	SMT2A100GKJBCA00ESA0	SMT2A100GKLBWA00ESA0
	SMT2A200GKJDCA00ESA0	SMT2A200GKLDWA00ESA0
	SMT2A400GKJDCA00ESA0	SMT2A400GKLDWA00ESA0
	SMT2A800GKJDCA00ESA0	SMT2A800GKLDWA00ESA0
M.2 2242	SNT2A032GKKBCA00ESA0	SNT2A032GKMBWA00ESA0
	SNT2A064GKKDCA00ESA0	SNT2A064GKMDWA00ESA0
	SNT2A128GKKDCA00ESA0	SNT2A128GKMDWA00ESA0
	SNT2A256GKKDCA00ESA0	SNT2A256GKMDWA00ESA0
	SNT2A100GKJBCA00ESA0	SNT2A100GKLBWA00ESA0
	SNT2A200GKJDCA00ESA0	SNT2A200GKLDWA00ESA0
	SNT2A400GKJDCA00ESA0	SNT2A400GKLDWA00ESA0
	SNT2A800GKJDCA00ESA0	SNT2A800GKLDWA00ESA0
M.2 2280	SNT2A032GKKBCAA0ESA0	SNT2A032GKMBWAA0ESA0
	SNT2A064GKKDCAA0ESA0	SNT2A064GKMDWAA0ESA0
	SNT2A128GKKDCAA0ESA0	SNT2A128GKMDWAA0ESA0
	SNT2A256GKKDCAA0ESA0	SNT2A256GKMDWAA0ESA0
	SNT2A512GKKDCAA0ESA0	SNT2A512GKMDWAA0ESA0
	SNT2A100GKJBAA0ESA0	SNT2A100GKLBWAA0ESA0
	SNT2A200GKJDCAA0ESA0	SNT2A200GKLDWAA0ESA0
	SNT2A400GKJDCAA0ESA0	SNT2A400GKLDWAA0ESA0
	SNT2A800GKJDCAA0ESA0	SNT2A800GKLDWAA0ESA0
	SNT2A1R6TKJDCAA0ESA0	SNT2A1R6TKLDWAA0ESA0

Last order acceptance date:

10th May. 2024

Contact Information

TDK Corporation

Sales Promotion Section ESS Business Unit Flash Memory Applied Device Business Div.

Norihisa Miyamoto Norihisa.Miyamoto@tdk.com

Attached Document:

◆1.Evaluation items and results

1) High-Temperature Operating Test

For the memory module equipped with the following flash memory, the loop test* for 500 hour continuous operation was executed 85°C condition. Test result was "PASS".

Flash memory part number: TH58LJT0W25BAMC、TH58LJT1W25BASC、TH58LJT2W25BASH

2) Low-Temperature Operating Test

For the memory module equipped with the following flash memory, the loop test* for 500 hour continuous operation was executed -40°C condition. Test result was "PASS".

Flash memory part number: TH58LJT0W25BAMC、TH58LJT1W25BASC、TH58LJT2W25BASH

3) Wave form data check

For the memory module equipped with the following flash memory, we observed the control signal and the data bus signal between the controller IC and the flash memory at the time of read/write.

As a result, no abnormality was found in the waveform data.

Flash memory part number: TH58LJT0W25BAMC、TH58LJT1W25BASC、TH58LJT2W25BASH

4) Performance data (Measured by Crystal Disk Mark)

MODE	Connection method of flash memory	Current products [BiCS4 Flash memory]				New products [BiCS5 Flash memory]			
		Flash memory part number	Qty	Access speed (MB/Sec)		Flash memory part number	Qty	Access speed (MB/Sec)	
				Write	Read			Write	Read
SLC	2para 1way	TH58LJT0T24BA4C	2	181	171	TH58LJT0W25BAMC	2	180	174
		TH58LJT1T24BA8C	2	183	169	TH58LJT1W25BASC	2	184	173
		TH58LJT2T24BA8H	2	182	170	TH58LJT2W25BASH	2	182	173
	4para 1way	TH58LJT0T24BA4C	2	307	348	TH58LJT0W25BAMC	2	307	354
		TH58LJT1T24BA8C	2	305	349	TH58LJT1W25BASC	2	309	355
		TH58LJT2T24BA8H	2	307	349	TH58LJT2W25BASH	2	308	354
TLC	2para 1way	TH58LJT0T24BA4C	2	181	171	TH58LJT0W25BAMC	2	179	174
		TH58LJT1T24BA8C	2	182	170	TH58LJT1W25BASC	2	184	174
		TH58LJT2T24BA8H	2	180	170	TH58LJT2W25BASH	2	182	173
	4para 1way	TH58LJT0T24BA4C	2	304	348	TH58LJT0W25BAMC	2	308	354
		TH58LJT1T24BA8C	2	305	348	TH58LJT1W25BASC	2	309	356
		TH58LJT2T24BA8H	2	304	348	TH58LJT2W25BASH	2	308	355

*Loop test: A test to verify whether there is no defective block in the entire area of the flash memory by repeatedly writing, reading and verifying the data, and whether data can be read and written normally without malfunctioning.