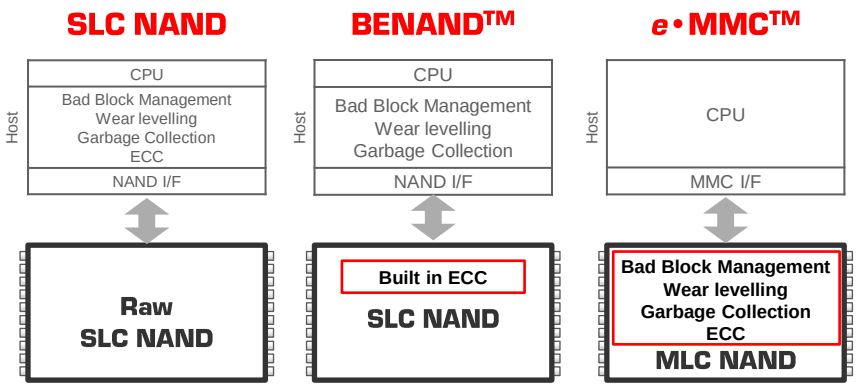
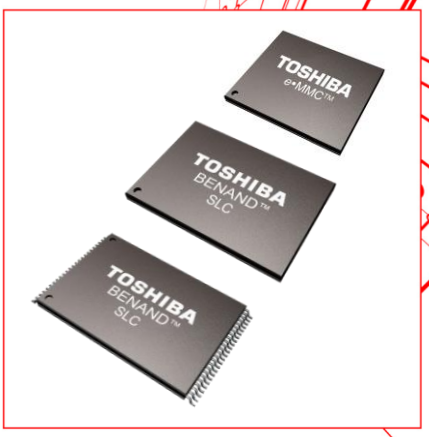
TOSHIBA
Leading Innovation

MEMORY PRODUCT LIST

SLC NAND, BENAND™ & e•MMC™





VALID FROM JULY TO SEPTEMBER 2013

SPECIFICATIONS

Density	Item Name	Design rule	Page Size	Vcc	Vccq	ECC level	Operation Temperature	Package
SLC NAND								
1Gbit	TC58NVG0S3HTAI0	24nm	(2048+128)x8 bit	3.3V	3.3V	8bit/512B	-40°C to 85°C	48TSOP 12x20
	TC58NVG0S3HBAI4	24nm	(2048+128)x8 bit	3.3V	3.3V	8bit/512B	-40°C to 85°C	63BGA 9x11
	TC58NYG0S3HBAI4	24nm	(2048+128)x8 bit	1.8V	1.8V	8bit/512B	-40°C to 85°C	63BGA 9x11
2Gbit	TC58NVG1S3HTAI0	24nm	(2048+128)x8 bit	3.3V	3.3V	8bit/512B	-40°C to 85°C	48TSOP 12x20
	TC58NVG1S3HBAI4	24nm	(2048+128)x8 bit	3.3V	3.3V	8bit/512B	-40°C to 85°C	63BGA 9x11
	TC58NYG1S3HBAI4	24nm	(2048+128)x8 bit	1.8V	1.8V	8bit/512B	-40°C to 85°C	63BGA 9x11
4Gbit	TC58NVG2S0HTA00	24nm	(4096+256)x8 bit	3.3V	3.3V	8bit/512B	0°C to 70°C	48TSOP 12x20
	TH58NVG2S3HTAI0	24nm	(2048+128)x8 bit	3.3V	3.3V	8bit/512B	-40°C to 85°C	48TSOP 12x20
8Gbit	TC58NVG3S0FTAI0	32nm	(4096+232)x8 bit	3.3V	3.3V	4bit/512B	-40°C to 85°C	48TSOP 12x20
	TC58NYG3S0FBAID	32nm	(4096+232)x8 bit	1.8V	1.8V	4bit/512B	-40°C to 85°C	63BGA 10x11
16Gbit	TH58NVG4S0FTAK0	32nm	(4096+232)x8 bit	3.3V	3.3V	4bit/512B	-40°C to 85°C	48TSOP 12x20
	TH58NYG4S0FBAID	32nm	(4096+232)x8 bit	1.8V	1.8V	4bit/512B	-40°C to 85°C	63BGA 10x11
32Gbit	TC58NVG5H2HTAI0	24nm	(8192+1024)x8 bit	3.3V	3.3V	24bit/1024B	-40°C to 70°C	48TSOP 12x20
64Gbit	TH58NVG6H2HTAK0	24nm	(8192+1024)x8 bit	3.3V	3.3V	24bit/1024B	-40°C to 70°C	48TSOP 12x20
128Gbit	TH58NVG7H2HTAK0	24nm	(8192+1024)x8 bit	3.3V	3.3V	24bit/1024B	-40°C to 70°C	48TSOP 12x20
BENAND™ - SLC NAND with build in ECC								
1Gbit	TC58BVG0S3HTAI0	24nm	(2048+64)x8 bit	3.3V	3.3V	internal ECC	-40°C to 85°C	48TSOP 12x20
	TC58BVG0S3HBAI4	24nm	(2048+64)x8 bit	3.3V	3.3V	internal ECC	-40°C to 85°C	63BGA 9x11
	TC58BYG0S3HBAI4	24nm	(2048+64)x8 bit	1.8V	1.8V	internal ECC	-40°C to 85°C	63BGA 9x11
2Gbit	TC58BVG1S3HTAI0	24nm	(2048+64)x8 bit	3.3V	3.3V	internal ECC	-40°C to 85°C	48TSOP 12x20
	TC58BVG1S3HBAI4	24nm	(2048+64)x8 bit	3.3V	3.3V	internal ECC	-40°C to 85°C	63BGA 9x11
4Gbit	TC58BYG1S3HBAI4	24nm	(2048+64)x8 bit	1.8V	1.8V	internal ECC	-40°C to 85°C	63BGA 9x11
	TH58BVG2S3HTAI0	24nm	(2048+64)x8 bit	3.3V	3.3V	internal ECC	-40°C to 85°C	48TSOP 12x20
	TC58BVG2S0HTAI0	24nm	(4096+128) x 8 bit	3.3V	3.3V	internal ECC	-40°C to 85°C	48TSOP 12x20
	TH58BYG2S3HBAI4	24nm	(2048+64)x8 bit	1.8V	1.8V	internal ECC	-40°C to 85°C	63BGA 9x11
	TC58BYG2S0HBAI4	24nm	(4096+128)x 8 bit	1.8V	1.8V	internal ECC	-40°C to 85°C	63BGA 9x11
e•MMC™								
4GBytes	THGBM5G5A1JBAIR	19nm	-	3.3V	1.8V, 3.3V	internal ECC	-25°C to 85°C	153FBGA 11.5x13
8GByte	THGBMBG6D1KBAIL	A19nm	-	3.3V	1.8V, 3.3V	internal ECC	-25°C to 85°C	153FBGA 11.5x13
16GByte	THGBMBG7D2KBAIL	A19nm	-	3.3V	1.8V, 3.3V	internal ECC	-25°C to 85°C	153FBGA 11.5x13
32GByte	THGBMBG8D4KBAIR	A19nm	-	3.3V	1.8V, 3.3V	internal ECC	-25°C to 85°C	153FBGA 11.5x13
64GByte	THGBMBG9D8KBAIC	A19nm	-	3.3V	1.8V, 3.3V	internal ECC	-25°C to 85°C	153FBGA 11.5x13

深圳市满度科技有限公司
Web:www.manduic.com
Tel:150-1290-5940
Email:sales@manduic.com
微信扫码咨询客服

TOSHIBA
Leading Innovation

MEMORY PRODUCT LIST

SD, microSD CARD & FlashAir™

VALID FROM JULY TO SEPTEMBER 2013

SPECIFICATIONS

Speed class	Density	Item Name	Design Rule	Bit/Cell	Operation Temperature
microSD Cards					
cl4	4GB	SD-C04GET2(RZCLH)	19nm	3b/c	-25°C to 85°C
	8GB	SD-C08G2T2(RZCKH)	19nm	3b/c	-25°C to 85°C
	16GB	SD-C16G2T2(PZCKH)	19nm	3b/c	-25°C to 85°C
	32GB	SD-C32G2T2(PZCKP)	19nm	3b/c	-25°C to 85°C
cl10 U1	8GB	SD-C08G2T2(22GKP)	19nm	2b/c	-25°C to 85°C
	16GB	SD-C16G2T2(2ZGKP)	19nm	3b/c	-25°C to 85°C
	32GB	SD-C32G2T2(2ZGKP)	19nm	3b/c	-25°C to 85°C
	64GB	SD-C64G2T2(2ZGKY)	19nm	3b/c	-25°C to 85°C
SD Cards					
cl4	4GB	SD-K04G2B8(PZCFN)	19nm	3b/c	-25°C to 85°C
	8GB	SD-K08G2B8(PZCFN)	19nm	3b/c	-25°C to 85°C
	16GB	SD-K16G2B8(P1CFN)	19nm	3b/c	-25°C to 85°C
	32GB	SD-K32G2B8(P1CFN)	19nm	3b/c	-25°C to 85°C
cl10 U1	8GB	SD-K08G2B8(22GFN)	19nm	2b/c	-25°C to 85°C
	16GB	SD-K16G2B8(2ZGFN)	19nm	3b/c	-25°C to 85°C
	32GB	SD-K32G2B8(2ZGFN)	19nm	3b/c	-25°C to 85°C
	64GB	SD-K64G2B8(21GFN)	19nm	3b/c	-25°C to 85°C
FlashAir™ SD Cards					
cl10	8GB	THNSW008GAA-B(xxx)	19nm	2b/c	-25°C to 85°C
	16GB	THNSW016GAA-B(QB8)	19nm	2b/c	-25°C to 85°C

Note: The microSD and SD Card line up will change to A19nm generation within Q4 2013



WHAT IS FLASHAIR™?

FlashAir™ is a standard SDHC™ memory card class 10, which offers you 8 and 16GB of high quality memory. But FlashAir™ is more than a standard memory card. It offers embedded Wireless LAN and creates it's own access point, accessible from other Wireless LAN enabled devices. Industrial or consumer products which have an SD Card slot can now transmit any kind of data stored on a FlashAir™ SD card. Log files, firmware updates, configuration settings, pictures, templates and even more types of data can now be easily transmitted and accessed remotely.

- No special software or driver required
- WPA2 Secured Access Point
- Easy access to Data via integrated HTML Server
- Compatible with Windows, Android, iOS, etc.



深圳市满度科技有限公司
Web:www.manduic.com
www.toshiba-components.com
Tel:150-1290-5940
Email:sales@manduic.com