

## Product Change Notice

### (Industrial microSDHC H1-M Flash Transition from Toshiba A19nm to 15nm)

Dear Valued Customers,

Apacer hereby announces the Product Change Notice of microSDHC H1-M series products, as a result of reacting to the End of Life of Toshiba MLC A19nm 32Gb, 64Gb NAND flash. The alternative flash are Toshiba MLC 15nm 64Gb NAND flash. Those new flash have passed all validations and qualification tests with no function or compatibility issue. Please refer to below PCN table for details.

PCN Number:	E151231-02	Release Date:	12/31/2015
Affected Product Model	Industrial microSDHC H1-M		
Subject :			
Industrila microSDHC H1-M Flash Transition from Toshiba A19nm to 15nm			
Description of Change:			
1. To react the End of Life of Toshiba MLC A19nm 32Gb, 64Gb NAND flash, affected products have applied Toshiba 15nm 64Gbflash ID and passed the verification and qualification with no function and compatibility issues.			
2. Firmware version moves to "1F" to support Toshiba 15nm NAND flash			
Recommended Action :			
For long-term supply and cost perspective, Apacer recommends customers to qualify Toshiba 15nm MLC flash in a timely manner.			
Description of Product Part Number Change:			
The new part numbers are listed here			
Operating Temperature (0℃ ~ 70℃)			
Existing (A19)		New (15nm)	
AP-MSD04GCA-1ATM		N/A (C-spec by requested)	
AP-MSD04GCA-1DTM		N/A (C-spec by requested)	
AP-MSD08GCA-1ATM		AP-MSD08GCA-1FTM	
AP-MSD16GCA-1ATM		AP-MSD16GCA-1FTM	
AP-MSD32GCA-1ATM		AP-MSD32GCA-1FTM	
AP-MSD64GCA-1CTM		AP-MSD64GCA-1FTM	
Operating Temperature (-40℃ ~ 85℃)			
Existing (A19)		New (15nm)	
AP-MSD04GIA-1ATM		N/A (C-spec by requested)	
AP-MSD04GIA-1DTM		N/A (C-spec by requested)	
AP-MSD08GIA-1ATM		AP-MSD08GIA-1FTM	
AP-MSD16GIA-1ATM		AP-MSD16GIA-1FTM	
AP-MSD32GIA-1ATM		AP-MSD32GIA-1FTM	
AP-MSD64GIA-1CTM		AP-MSD64GIA-1FTM	
Schedule:			
15nm Sample Available Date: 01/05/2016			
Non-Cancelable & Non-Returnable Last Buy Order: 03/23/2016			
Last Time Buy Shipment Date: 06/30/2016			

Apacer would provide every necessary supports to ensure a smooth transition. If you have any questions and concerns with the content of this notice, please contact with Apacer sales representatives.

**Embedded Application Product Division**  
**Apacer Technology Inc.**