

## 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.

Affected Product Model   Industrial microSDHC H1-M     Subject :   Industrial 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°C - 70°C)     Existing (A19)     NAN (C-spec by requested)     AP-MSD04GCA-1ATM     AP-	PCN Number:	E151231-02		Release Date:	12/31/2015		
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°C ~ 70°C)     Existing (A19)   New (15nm)     AP-MSD04GCA-1ATM   N/A (C-spec by requested)     AP-MSD04GCA-1ATM   AP-MSD08GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD2GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD16GCA-1ATM	Affected Product Model	Industrial microSDHC H1-M					
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The new part numbers are listed here     Operating Temperature (0°C ~ 70°C)     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-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD32GCA-1ATM   AP-MSD32GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD04GIA-1ATM   N/A (C-spec by requested)     AP-MSD04GIA-1DTM   N/A (C-spec by requested)     AP-MSD04GIA-1ATM   N/A (C-spec by requested)     AP-MSD04GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD2GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD2GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD2GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM							
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Existing (A19)New (15nm)AP-MSD04GCA-1ATMN/A (C-spec by requested)AP-MSD04GCA-1DTMN/A (C-spec by requested)AP-MSD08GCA-1ATMAP-MSD08GCA-1FTMAP-MSD16GCA-1ATMAP-MSD16GCA-1FTMAP-MSD32GCA-1ATMAP-MSD32GCA-1FTMAP-MSD64GCA-1CTMAP-MSD64GCA-1FTMAP-MSD64GCA-1CTMAP-MSD64GCA-1FTMAP-MSD04GIA-1ATMN/A (C-spec by requested)AP-MSD04GIA-1ATMN/A (C-spec by requested)AP-MSD04GIA-1DTMN/A (C-spec by requested)AP-MSD08GIA-1ATMAP-MSD08GIA-1FTMAP-MSD08GIA-1ATMAP-MSD08GIA-1FTMAP-MSD16GIA-1ATMAP-MSD08GIA-1FTMAP-MSD16GIA-1ATMAP-MSD08GIA-1FTMAP-MSD16GIA-1ATMAP-MSD16GIA-1FTMAP-MSD16GIA-1ATMAP-MSD16GIA-1FTMAP-MSD16GIA-1ATMAP-MSD16GIA-1FTMAP-MSD16GIA-1ATMAP-MSD16GIA-1FTMAP-MSD16GIA-1ATMAP-MSD22GIA-1FTMAP-MSD264GIA-1CTMAP-MSD64GIA-1FTMAP-MSD64GIA-1CTMAP-MSD64GIA-1FTMAP-MSD64GIA-1CTMAP-MSD64GIA-1FTMAP-MSD64GIA-1CTMAP-MSD64GIA-1FTMAP-MSD64GIA-1CTMAP-MSD64GIA-1FTMAP-MSD64GIA-1CTMAP-MSD64GIA-1FTM	The new part numbers are listed here						
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-MSD32GCA-1ATM   AP-MSD32GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD32GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD04GIA-1ATM   N/A (C-spec by requested)     AP-MSD04GIA-1ATM   N/A (C-spec by requested)     AP-MSD04GIA-1DTM   N/A (C-spec by requested)     AP-MSD04GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD04GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD04GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD32GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM <td colspan="7">Operating Temperature (0°C ~ 70°C)</td>	Operating Temperature (0°C ~ 70°C)						
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     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     Operating Temperature (-40°C ~ 85°C)   Existing (A19)     New (15nm)   AP-MSD04GIA-1ATM     AP-MSD04GIA-1ATM   N/A (C-spec by requested)     AP-MSD04GIA-1DTM   N/A (C-spec by requested)     AP-MSD04GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD08GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD08GIA-1ATM   AP-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM	<b>0</b> ( )			· /			
AP-MSD08GCA-1ATM   AP-MSD08GCA-1FTM     AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD32GCA-1ATM   AP-MSD32GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     Operating Temperature (-40°C ~ 85°C)   Existing (A19)     New (15nm)   AP-MSD04GIA-1ATM     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-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD32GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM							
AP-MSD16GCA-1ATM   AP-MSD16GCA-1FTM     AP-MSD32GCA-1ATM   AP-MSD32GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     Operating Temperature (-40°C ~ 85°C)							
AP-MSD32GCA-1ATM   AP-MSD32GCA-1FTM     AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     Operating Temperature (-40°C ~ 85°C)   Existing (A19)   New (15nm)     AP-MSD04GIA-1ATM   N/A (C-spec by requested)     AP-MSD04GIA-1DTM   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-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD32GIA-1ATM   AP-MSD32GIA-1FTM     AP-MSD32GIA-1ATM   AP-MSD32GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM							
AP-MSD64GCA-1CTM   AP-MSD64GCA-1FTM     Operating Temperature (-40°C ~ 85°C)   Existing (A19)     New (15nm)   AP-MSD04GIA-1ATM     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-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD16GIA-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							
Operating Temperature (-40°C ~ 85°C)     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-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-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   15/2016							
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-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD32GIA-1ATM   AP-MSD32GIA-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   13/23/2016	AP-MSD64GCA-1CTM AP-MSD64GCA-1FTM						
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-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD32GIA-1ATM   AP-MSD32GIA-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   13/23/2016	On exacting Terms exact use $(40^{\circ} \text{C} - 05^{\circ} \text{C})$						
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-MSD08GIA-1FTM     AP-MSD16GIA-1ATM   AP-MSD16GIA-1FTM     AP-MSD32GIA-1ATM   AP-MSD32GIA-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   13/23/2016					]		
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-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			NI/A		d)		
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							
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					u)		
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     03/23/2016							
AP-MSD64GIA-1CTM   AP-MSD64GIA-1FTM     Schedule:   15nm Sample Available Date: 01/05/2016     Non-Cancelable & Non-Returnable Last Buy Order: 03/23/2016							
Schedule: 15nm Sample Available Date: 01/05/2016 Non-Cancelable & Non-Returnable Last Buy Order: 03/23/2016							
15nm Sample Available Date: 01/05/2016 Non-Cancelable & Non-Returnable Last Buy Order: 03/23/2016							
Non-Cancelable & Non-Returnable Last Buy Order: 03/23/2016							

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.

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