

## Product Change Notice (Industrial SD H1-M Flash Transition from Toshiba A19nm to 15nm)

Dear Valued Customers,

Apacer hereby announces the Product Change Notice of Industrial SD H1-M series products, as a result of reacting to the End of Life of Toshiba MLC A19nm 32Gb, 64Gb 128Gb NAND flash. The alternative flash are Toshiba MLC 15nm 64Gb, 128Gb 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.

<b>PCN Number:</b>	<i>E151231-03</i>	<b>Release Date:</b>	<i>12/31/2015</i>
<b>Affected Product Model</b>	<i>Industrial SD H1-M</i>		
<b>Subject :</b>			
<i>Industrial SD H1-M Flash Transition from Toshiba A19nm to 15nm</i>			
<b>Description of Change:</b>			
<ol style="list-style-type: none"> <li>1. <i>To react the End of Life of Toshiba MLC A19nm 32Gb, 64Gb, 128Gb NAND flash, affected products have applied Toshiba 15nm 64Gb, 128Gb flash ID and passed the verification and qualification with no function and compatibility issues.</i></li> <li>2. <i>Firmware version moves to "1F" to support Toshiba 15nm NAND flash</i></li> </ol>			
<b>Recommended Action :</b>			
<i>For long-term supply and cost perspective, Apacer recommends customers to qualify Toshiba 15nm MLC flash in a timely manner.</i>			
<b>Description of Product Part Number Change:</b>			
<i>The new part numbers are listed here</i>			
Operating Temperature (0°C ~ 70°C)			
Existing (A19)	New (15nm)		
AP-ISD004GCA-1ATM	N/A (C-spec by requested)		
AP-ISD008GCA-1ATM	AP-ISD008GCA-1FTM		
AP-ISD016GCA-1ATM	AP-ISD016GCA-1FTM		
AP-ISD032GCA-1ATM	AP-ISD032GCA-1FTM		
AP-ISD064GCA-1CTM	AP-ISD064GCA-1FTM		
AP-ISD128GCA-1CTM	AP-ISD128GCA-1FTM		
Operating Temperature (-40°C ~ 85°C)			
Existing (A19)	New (15nm)		
AP-ISD004GIA-1ATM	N/A (C-spec by requested)		
AP-ISD008GIA-1ATM	AP-ISD008GIA-1FTM		
AP-ISD016GIA-1ATM	AP-ISD016GIA-1FTM		
AP-ISD032GIA-1ATM	AP-ISD032GIA-1FTM		
AP-ISD064GIA-1CTM	AP-ISD064GIA-1FTM		
AP-ISD128GIA-1CTM	AP-ISD128GIA-1FTM		
<b>Schedule:</b>			
<i>15nm Sample Available Date: 01/05/2016</i>			
<i>Non-Cancelable &amp; Non-Returnable Last Buy Order: 03/23/2016</i>			
<i>Last Time Buy Shipment Date: 06/30/2016</i>			

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.**