

## Product Change Notice

### (SFDN004B firmware launch - SM210-300)

Release date: May 23, 2017

Dear Valued Customers,

Apacer hereby announces the Product Change Notice of the latest version firmware on SM210-300 product, as a result of updating firmware to SFDN004B from SFDN003B/B3 to enhance power failure handling and reliability issues. No change on the hardware of SM210-300.

The details of changing description, schedule and affected part number are listed at below table:

PCN number:	E170523-01	Date:	5/23/2017
Affected Product Model	SM210-300		
Subject :			
SM210-300 – firmware change			
Description of Change:			
<div>1. Optimize TSB 15nm ECC flow</div> <div>2. Integrate with CoreAnalyzer SMART log function</div> <div>3. Add thermal throttling function (Optional)</div> <div>4. Add SMART information (ID 0xAB, 0xAC, and 0xE7)</div> <div>5. Enhance idle merge mechanism</div> <div>6. To avoid FW enter into LOCK mode by preventing to write system info when device is out of free block</div> <div>7. Disable Auto Partial to Slumber to resolve compatibility issue on some platforms.</div> <div>8. Modify SMART ID 09 “Power on hours” to fix timer count issue.</div> <div>9. Modify SATA PHY Error Count in S.M.A.R.T. attribute.</div> <div>10. Enhance power failure management flow.</div> <div>11. Support 8K/16K mapping algorithm for high capacity.</div>			
Recommended Action :			
Apacer keeps on supplying SM210-300 with SFDN003B/B3 firmware but recommends customers to qualify SM210-300 with the latest version (SFDN004B) due to better compatibility & reliability.			
Description of Product Part Number Change:			
The new part numbers are listed here			

**Operating Temperature (0°C ~ 70°C)**

Existing		New	
Without WP M/N	With WP M/N	Without WP M/N	With WP M/N
APM008GMFAN-3BTM1	APM008GMFCN-3BTM1	APM008GMFAN-4BTM1	APM008GMFCN-4BTM1
APM016GMFAN-3BTM1	APM016GMFCN-3BTM1	APM016GMFAN-4BTM1	APM016GMFCN-4BTM1
APM032GMFAN-3BTM1	APM032GMFCN-3BTM1	APM032GMFAN-4BTM1	APM032GMFCN-4BTM1
APM064GMFAN-3BTM1G	APM064GMFCN-3BTM1G	APM064GMFAN-4BTM1G	APM064GMFCN-4BTM1G
APM128GMFAN-3BTM1G	APM128GMFCN-3BTM1G	APM128GMFAN-4BTM1G	APM128GMFCN-4BTM1G
APM256GMFAN-B3TM1G	APM256GMFCN-B3TM1G	APM256GMFAN-4BTM1G	APM256GMFCN-4BTM1G
APM512GMFAN-B3TM1G		APM512GMFAN-4BTM1G	

**Operating Temperature (-40°C ~ 85°C)**

Existing		New	
Without WP M/N	With WP M/N	Without WP M/N	With WP M/N
APM008GMFFN-3BTM1W	APM008GMFQN-3BTM1W	APM008GMFFN-4BTM1W	APM008GMFQN-4BTM1W
APM016GMFFN-3BTM1W	APM016GMFQN-3BTM1W	APM016GMFFN-4BTM1W	APM016GMFQN-4BTM1W
APM032GMFFN-3BTM1W	APM032GMFQN-3BTM1W	APM032GMFFN-4BTM1W	APM032GMFQN-4BTM1W
APM064GMFFN-3BTM1GW	APM064GMFQN-3BTM1GW	APM064GMFFN-4BTM1GW	APM064GMFQN-4BTM1GW
APM128GMFFN-3BTM1GW	APM128GMFQN-3BTM1GW	APM128GMFFN-4BTM1GW	APM128GMFQN-4BTM1GW
APM256GMFFN-B3TM1GW	APM256GMFQN-B3TM1GW	APM256GMFFN-4BTM1GW	APM256GMFQN-4BTM1GW
APM512GMFFN-B3TM1GW		APM512GMFFN-4BTM1GW	

Sample Available Date **Schedule:** 6/15/2017

Apacer will 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.

We appreciate your cooperation and thank you for your continued support of Apacer products.

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