

## Product Change Notice (SDM4-(M) with the latest version firmware\_SFDDA01D)

Released date: July 27, 2013

Dear Valued Customers,

Apacer hereby announces the Product Change Notice of the latest version firmware for SDM4-(M) products, as a result of upgraded firmware to SFDDA01D from SFDDA01C. New firmware will enhance the compatibility & reliability of SFDDA01C. Part No. will be changed to APSDMxxxGxAx-Pxx.

The details of changing description are listed at below table:

|                                                                                                                                                                                          |            |       |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|------------|
| PCN number:                                                                                                                                                                              | E130727-01 | Date: | 07/27/2013 |
| Affected Product Model                                                                                                                                                                   | SDM4-(M)   |       |            |
| Subject :                                                                                                                                                                                |            |       |            |
| Releasing the latest version of firmware (SFDDA01D)                                                                                                                                      |            |       |            |
| Description of Change:                                                                                                                                                                   |            |       |            |
| 1. Reason of revised firmware                                                                                                                                                            |            |       |            |
| ➤ Enhancing the compatibility & the reliability of our products with SFDDA01C firmware.                                                                                                  |            |       |            |
| 2. Key characteristics of the change                                                                                                                                                     |            |       |            |
| ➤ Fix host command too short time out issue; add time out handle from device.                                                                                                            |            |       |            |
| ➤ Fix host abnormal COMRESET issue, modify firmware handle mechanism.                                                                                                                    |            |       |            |
| ➤ Fix the timeout issue which was caused by long response time when host wait for next device command; enhance error handling mechanism.                                                 |            |       |            |
| ➤ Modify NAND access mechanism for Micron 25nm SLC flash characteristic. To enhance data reliability.                                                                                    |            |       |            |
| Recommended Actions:                                                                                                                                                                     |            |       |            |
| 1. Apacer keeps on supplying the old version products but Apacer recommends customers to qualify SDM4 products with the latest version (SFDDA01D) due to better compatibility & support. |            |       |            |

## Description of New Product Part Number:

| Product Type                                                 | Capacity | Existing           | New                |
|--------------------------------------------------------------|----------|--------------------|--------------------|
| SDM4 7P/90D<br>Middle Profile<br>(Power cable type)          | 2GB      | APSDM002GG5AN-CT   | APSDM002GG5AN-PT   |
|                                                              | 4GB      | APSDM004GG5AN-CT   | APSDM004GG5AN-PT   |
|                                                              | 8GB      | APSDM008GG5AN-CT   | APSDM008GG5AN-PT   |
|                                                              | 16GB     | APSDM016GG5AN-CC   | APSDM016GG5AN-PC   |
|                                                              | 32GB     | APSDM032GG5AN-CC   | APSDM032GG5AN-PC   |
| SDM4 7P/90D<br>Middle Profile ET<br>(Power cable type)       | 2GB      | APSDM002GG5AN-CTW  | APSDM002GG5AN-PTW  |
|                                                              | 4GB      | APSDM004GG5AN-CTW  | APSDM004GG5AN-PTW  |
|                                                              | 8GB      | APSDM008GG5AN-CTW  | APSDM008GG5AN-PTW  |
|                                                              | 16GB     | APSDM016GG5AN-CCW  | APSDM016GG5AN-PCW  |
|                                                              | 32GB     | APSDM032GG5AN-CCW  | APSDM032GG5AN-PCW  |
| SDM4 7P/90D<br>Middle Profile<br>(Power cable-less type)     | 2GB      | APSDM002GG5AN-CTC  | APSDM002GG5AN-PTC  |
|                                                              | 4GB      | APSDM004GG5AN-CTC  | APSDM004GG5AN-PTC  |
|                                                              | 8GB      | APSDM008GG5AN-CTC  | APSDM008GG5AN-PTC  |
|                                                              | 16GB     | APSDM016GG5AN-CCC  | APSDM016GG5AN-PCC  |
|                                                              | 32GB     | APSDM032GG5AN-CCC  | APSDM032GG5AN-PCC  |
| SDM4 7P/90D<br>Middle Profile ET<br>(Power cable-less type)  | 2GB      | APSDM002GG5AN-CTWC | APSDM002GG5AN-PTWC |
|                                                              | 4GB      | APSDM004GG5AN-CTWC | APSDM004GG5AN-PTWC |
|                                                              | 8GB      | APSDM008GG5AN-CTWC | APSDM008GG5AN-PTWC |
|                                                              | 16GB     | APSDM016GG5AN-CCWC | APSDM016GG5AN-PCWC |
|                                                              | 32GB     | APSDM032GG5AN-CCWC | APSDM032GG5AN-PCWC |
| SDM4 7P/180D<br>Middle Profile<br>(Power cable type)         | 2GB      | APSDM002G55AN-CT   | APSDM002G55AN-PT   |
|                                                              | 4GB      | APSDM004G55AN-CT   | APSDM004G55AN-PT   |
|                                                              | 8GB      | APSDM008G55AN-CT   | APSDM008G55AN-PT   |
|                                                              | 16GB     | APSDM016G55AN-CC   | APSDM016G55AN-PC   |
|                                                              | 32GB     | APSDM032G55AN-CC   | APSDM032G55AN-PC   |
| SDM4 7P/180D<br>Middle Profile ET<br>(Power cable type)      | 2GB      | APSDM002G55AN-CTW  | APSDM002G55AN-PTW  |
|                                                              | 4GB      | APSDM004G55AN-CTW  | APSDM004G55AN-PTW  |
|                                                              | 8GB      | APSDM008G55AN-CTW  | APSDM008G55AN-PTW  |
|                                                              | 16GB     | APSDM016G55AN-CCW  | APSDM016G55AN-PCW  |
|                                                              | 32GB     | APSDM032G55AN-CCW  | APSDM032G55AN-PCW  |
| SDM4 7P/180D<br>Middle Profile<br>(Power cable-less type)    | 2GB      | APSDM002G55AN-CTC  | APSDM002G55AN-PTC  |
|                                                              | 4GB      | APSDM004G55AN-CTC  | APSDM004G55AN-PTC  |
|                                                              | 8GB      | APSDM008G55AN-CTC  | APSDM008G55AN-PTC  |
|                                                              | 16GB     | APSDM016G55AN-CCC  | APSDM016G55AN-PCC  |
|                                                              | 32GB     | APSDM032G55AN-CCC  | APSDM032G55AN-PCC  |
| SDM4 7P/180D<br>Middle Profile ET<br>(Power cable-less type) | 2GB      | APSDM002G55AN-CTWC | APSDM002G55AN-PTWC |
|                                                              | 4GB      | APSDM004G55AN-CTWC | APSDM004G55AN-PTWC |
|                                                              | 8GB      | APSDM008G55AN-CTWC | APSDM008G55AN-PTWC |
|                                                              | 16GB     | APSDM016G55AN-CCWC | APSDM016G55AN-PCWC |
|                                                              | 32GB     | APSDM032G55AN-CCWC | APSDM032G55AN-PCWC |
| SDM4 7P/270D<br>Middle Profile<br>(Power cable type)         | 2GB      | APSDM002GF5AN-CT   | APSDM002GF5AN-PT   |
|                                                              | 4GB      | APSDM004GF5AN-CT   | APSDM004GF5AN-PT   |
|                                                              | 8GB      | APSDM008GF5AN-CT   | APSDM008GF5AN-PT   |
|                                                              | 16GB     | APSDM016GF5AN-CC   | APSDM016GF5AN-PC   |
|                                                              | 32GB     | APSDM032GF5AN-CC   | APSDM032GF5AN-PC   |
| SDM4 7P/270D<br>Middle Profile ET<br>(Power cable type)      | 2GB      | APSDM002GF5AN-CTW  | APSDM002GF5AN-PTW  |
|                                                              | 4GB      | APSDM004GF5AN-CTW  | APSDM004GF5AN-PTW  |
|                                                              | 8GB      | APSDM008GF5AN-CTW  | APSDM008GF5AN-PTW  |
|                                                              | 16GB     | APSDM016GF5AN-CCW  | APSDM016GF5AN-PCW  |
|                                                              | 32GB     | APSDM032GF5AN-CCW  | APSDM032GF5AN-PCW  |
| SDM4 7P/270D<br>Middle Profile<br>(Power cable-less type)    | 2GB      | APSDM002GF5AN-CTC  | APSDM002GF5AN-PTC  |
|                                                              | 4GB      | APSDM004GF5AN-CTC  | APSDM004GF5AN-PTC  |
|                                                              | 8GB      | APSDM008GF5AN-CTC  | APSDM008GF5AN-PTC  |
|                                                              | 16GB     | APSDM016GF5AN-CCC  | APSDM016GF5AN-PCC  |
|                                                              | 32GB     | APSDM032GF5AN-CCC  | APSDM032GF5AN-PCC  |
| SDM4 7P/270D<br>Middle Profile ET<br>(Power cable-less type) | 2GB      | APSDM002GF5AN-CTWC | APSDM002GF5AN-PTWC |
|                                                              | 4GB      | APSDM004GF5AN-CTWC | APSDM004GF5AN-PTWC |
|                                                              | 8GB      | APSDM008GF5AN-CTWC | APSDM008GF5AN-PTWC |

|                                                  |      |                    |                    |
|--------------------------------------------------|------|--------------------|--------------------|
|                                                  | 16GB | APSDM016GF5AN-CCWC | APSDM016GF5AN-PCWC |
|                                                  | 32GB | APSDM032GF5AN-CCWC | APSDM032GF5AN-PCWC |
| SDM4 7P/90D<br>LP<br>(Power cable type)          | 1GB  | APSDM001GD5AN-CT   | APSDM001GD5AN-PT   |
|                                                  | 2GB  | APSDM002GD5AN-CT   | APSDM002GD5AN-PT   |
|                                                  | 4GB  | APSDM004GD5AN-CT   | APSDM004GD5AN-PT   |
|                                                  | 8GB  | APSDM008GD5AN-CC   | APSDM008GD5AN-PC   |
|                                                  | 16GB | APSDM016GD5AN-CC   | APSDM016GD5AN-PC   |
|                                                  | 1GB  | APSDM001GD5AN-CTW  | APSDM001GD5AN-PTW  |
| SDM4 7P/90D<br>LP ET<br>(Power cable type)       | 2GB  | APSDM002GD5AN-CTW  | APSDM002GD5AN-PTW  |
|                                                  | 4GB  | APSDM004GD5AN-CTW  | APSDM004GD5AN-PTW  |
|                                                  | 8GB  | APSDM008GD5AN-CCW  | APSDM008GD5AN-PCW  |
|                                                  | 16GB | APSDM016GD5AN-CCW  | APSDM016GD5AN-PCW  |
|                                                  | 1GB  | APSDM001GE5AN-CT   | APSDM001GE5AN-PT   |
|                                                  | 2GB  | APSDM002GE5AN-CT   | APSDM002GE5AN-PT   |
| SDM4 7P/90D LPH<br>(Power cable type)            | 4GB  | APSDM004GE5AN-CT   | APSDM004GE5AN-PT   |
|                                                  | 8GB  | APSDM008GE5AN-CC   | APSDM008GE5AN-PC   |
|                                                  | 16GB | APSDM016GE5AN-CC   | APSDM016GE5AN-PC   |
|                                                  | 1GB  | APSDM001GE5AN-CTW  | APSDM001GE5AN-PTW  |
|                                                  | 2GB  | APSDM002GE5AN-CTW  | APSDM002GE5AN-PTW  |
|                                                  | 4GB  | APSDM004GE5AN-CTW  | APSDM004GE5AN-PTW  |
| SDM4 7P/90D<br>LPH ET<br>(Power cable type)      | 8GB  | APSDM008GE5AN-CCW  | APSDM008GE5AN-PCW  |
|                                                  | 16GB | APSDM016GE5AN-CCW  | APSDM016GE5AN-PCW  |
|                                                  | 1GB  | APSDM001GD5AN-CTC  | APSDM001GD5AN-PTC  |
|                                                  | 2GB  | APSDM002GD5AN-CTC  | APSDM002GD5AN-PTC  |
|                                                  | 4GB  | APSDM004GD5AN-CTC  | APSDM004GD5AN-PTC  |
|                                                  | 8GB  | APSDM008GD5AN-CCC  | APSDM008GD5AN-PCC  |
| SDM4 7P/90D<br>LP<br>(Power cable-less type)     | 16GB | APSDM016GD5AN-CCC  | APSDM016GD5AN-PCC  |
|                                                  | 1GB  | APSDM001GD5AN-CTWC | APSDM001GD5AN-PTWC |
|                                                  | 2GB  | APSDM002GD5AN-CTWC | APSDM002GD5AN-PTWC |
|                                                  | 4GB  | APSDM004GD5AN-CTWC | APSDM004GD5AN-PTWC |
|                                                  | 8GB  | APSDM008GD5AN-CCWC | APSDM008GD5AN-PCWC |
|                                                  | 16GB | APSDM016GD5AN-CCWC | APSDM016GD5AN-PCWC |
| SDM4 7P/90D<br>LP ET<br>(Power cable-less type)  | 1GB  | APSDM001GE5AN-CTC  | APSDM001GE5AN-PTC  |
|                                                  | 2GB  | APSDM002GE5AN-CTC  | APSDM002GE5AN-PTC  |
|                                                  | 4GB  | APSDM004GE5AN-CTC  | APSDM004GE5AN-PTC  |
|                                                  | 8GB  | APSDM008GE5AN-CCC  | APSDM008GE5AN-PCC  |
|                                                  | 16GB | APSDM016GE5AN-CCC  | APSDM016GE5AN-PCC  |
|                                                  | 1GB  | APSDM001GE5AN-CTWC | APSDM001GE5AN-PTWC |
| SDM4 7P/90D<br>LPH ET<br>(Power cable-less type) | 2GB  | APSDM002GE5AN-CTWC | APSDM002GE5AN-PTWC |
|                                                  | 4GB  | APSDM004GE5AN-CTWC | APSDM004GE5AN-PTWC |
|                                                  | 8GB  | APSDM008GE5AN-CCWC | APSDM008GE5AN-PCWC |
|                                                  | 16GB | APSDM016GE5AN-CCWC | APSDM016GE5AN-PCWC |
|                                                  | 1GB  | APSDM001GA5AN-CT   | APSDM001GA5AN-PT   |
|                                                  | 2GB  | APSDM002GA5AN-CT   | APSDM002GA5AN-PT   |
| SDM4 7P/180D<br>LP<br>(Power cable type)         | 4GB  | APSDM004GA5AN-CT   | APSDM004GA5AN-PT   |
|                                                  | 8GB  | APSDM008GA5AN-CC   | APSDM008GA5AN-PC   |
|                                                  | 16GB | APSDM016GA5AN-CC   | APSDM016GA5AN-PC   |
|                                                  | 1GB  | APSDM001GA5AN-CTW  | APSDM001GA5AN-PTW  |
|                                                  | 2GB  | APSDM002GA5AN-CTW  | APSDM002GA5AN-PTW  |
|                                                  | 4GB  | APSDM004GA5AN-CTW  | APSDM004GA5AN-PTW  |
| SDM4 7P/180D<br>LP ET<br>(Power cable type)      | 8GB  | APSDM008GA5AN-CCW  | APSDM008GA5AN-PCW  |
|                                                  | 16GB | APSDM016GA5AN-CCW  | APSDM016GA5AN-PCW  |
|                                                  | 1GB  | APSDM001GB5AN-CT   | APSDM001GB5AN-PT   |
|                                                  | 2GB  | APSDM002GB5AN-CT   | APSDM002GB5AN-PT   |
|                                                  | 4GB  | APSDM004GB5AN-CT   | APSDM004GB5AN-PT   |
|                                                  | 8GB  | APSDM008GB5AN-CC   | APSDM008GB5AN-PC   |
| SDM4 7P/180D<br>LPH<br>(Power cable type)        | 16GB | APSDM016GB5AN-CC   | APSDM016GB5AN-PC   |
|                                                  | 1GB  | APSDM001GB5AN-CTW  | APSDM001GB5AN-PTW  |
|                                                  | 2GB  | APSDM002GB5AN-CTW  | APSDM002GB5AN-PTW  |
|                                                  | 4GB  | APSDM004GB5AN-CTW  | APSDM004GB5AN-PTW  |
|                                                  | 8GB  | APSDM008GB5AN-CCW  | APSDM008GB5AN-PCW  |
|                                                  | 16GB | APSDM016GB5AN-CCW  | APSDM016GB5AN-PCW  |

|                                                   |      |                    |                    |
|---------------------------------------------------|------|--------------------|--------------------|
| SDM4 7P/180D<br>LP<br>(Power cable-less type)     | 1GB  | APSDM001GA5AN-CTC  | APSDM001GA5AN-PTC  |
|                                                   | 2GB  | APSDM002GA5AN-CTC  | APSDM002GA5AN-PTC  |
|                                                   | 4GB  | APSDM004GA5AN-CTC  | APSDM004GA5AN-PTC  |
|                                                   | 8GB  | APSDM008GA5AN-CCC  | APSDM008GA5AN-PCC  |
|                                                   | 16GB | APSDM016GA5AN-CCC  | APSDM016GA5AN-PCC  |
| SDM4 7P/180D<br>LP ET<br>(Power cable-less type)  | 1GB  | APSDM001GA5AN-CTWC | APSDM001GA5AN-PTWC |
|                                                   | 2GB  | APSDM002GA5AN-CTWC | APSDM002GA5AN-PTWC |
|                                                   | 4GB  | APSDM004GA5AN-CTWC | APSDM004GA5AN-PTWC |
|                                                   | 8GB  | APSDM008GA5AN-CCWC | APSDM008GA5AN-PCWC |
|                                                   | 16GB | APSDM016GA5AN-CCWC | APSDM016GA5AN-PCWC |
| SDM4 7P/180D<br>LPH<br>(Power cable-less type)    | 1GB  | APSDM001GB5AN-CTC  | APSDM001GB5AN-PTC  |
|                                                   | 2GB  | APSDM002GB5AN-CTC  | APSDM002GB5AN-PTC  |
|                                                   | 4GB  | APSDM004GB5AN-CTC  | APSDM004GB5AN-PTC  |
|                                                   | 8GB  | APSDM008GB5AN-CCC  | APSDM008GB5AN-PCC  |
|                                                   | 16GB | APSDM016GB5AN-CCC  | APSDM016GB5AN-PCC  |
| SDM4 7P/180D<br>LPH ET<br>(Power cable-less type) | 1GB  | APSDM001GB5AN-CTWC | APSDM001GB5AN-PTWC |
|                                                   | 2GB  | APSDM002GB5AN-CTWC | APSDM002GB5AN-PTWC |
|                                                   | 4GB  | APSDM004GB5AN-CTWC | APSDM004GB5AN-PTWC |
|                                                   | 8GB  | APSDM008GB5AN-CCWC | APSDM008GB5AN-PCWC |
|                                                   | 16GB | APSDM016GB5AN-CCWC | APSDM016GB5AN-PCWC |
| SDM4 22P/90D<br>Standard type                     | 2GB  | APSDM002G15AN-CT   | APSDM002G15AN-PT   |
|                                                   | 4GB  | APSDM004G15AN-CT   | APSDM004G15AN-PT   |
|                                                   | 8GB  | APSDM008G15AN-CT   | APSDM008G15AN-PT   |
|                                                   | 16GB | APSDM016G15AN-CC   | APSDM016G15AN-PC   |
|                                                   | 32GB | APSDM032G15AN-CC   | APSDM032G15AN-PC   |
| SDM4 22P/90D<br>ET<br>Standard type               | 2GB  | APSDM002G15AN-CTW  | APSDM002G15AN-PTW  |
|                                                   | 4GB  | APSDM004G15AN-CTW  | APSDM004G15AN-PTW  |
|                                                   | 8GB  | APSDM008G15AN-CTW  | APSDM008G15AN-PTW  |
|                                                   | 16GB | APSDM016G15AN-CCW  | APSDM016G15AN-PCW  |
|                                                   | 32GB | APSDM032G15AN-CCW  | APSDM032G15AN-PCW  |
| SDM4 22P/90D<br>High speed type                   | 4GB  | APSDM004G15AD-CT   | APSDM004G15AD-PT   |
|                                                   | 8GB  | APSDM008G15AD-CT   | APSDM008G15AD-PT   |
|                                                   | 16GB | APSDM016G15AD-CT   | APSDM016G15AD-PT   |
|                                                   | 32GB | APSDM032G15AD-CC   | APSDM032G15AD-PC   |
|                                                   | 64GB | APSDM064G15AD-CC   | APSDM064G15AD-PC   |
| SDM4 22P/90D ET<br>High speed type                | 4GB  | APSDM004G15AD-CTW  | APSDM004G15AD-PTW  |
|                                                   | 8GB  | APSDM008G15AD-CTW  | APSDM008G15AD-PTW  |
|                                                   | 16GB | APSDM016G15AD-CTW  | APSDM016G15AD-PTW  |
|                                                   | 32GB | APSDM032G15AD-CCW  | APSDM032G15AD-PCW  |
|                                                   | 64GB | APSDM064G15AD-CCW  | APSDM064G15AD-PCW  |
| SDM4 22P/180D<br>Standard type                    | 2GB  | APSDM002G45AN-CT   | APSDM002G45AN-PT   |
|                                                   | 4GB  | APSDM004G45AN-CT   | APSDM004G45AN-PT   |
|                                                   | 8GB  | APSDM008G45AN-CT   | APSDM008G45AN-PT   |
|                                                   | 16GB | APSDM016G45AN-CC   | APSDM016G45AN-PC   |
|                                                   | 32GB | APSDM032G45AN-CC   | APSDM032G45AN-PC   |
| SDM4 22P/180D ET<br>Standard type                 | 2GB  | APSDM002G45AN-CTW  | APSDM002G45AN-PTW  |
|                                                   | 4GB  | APSDM004G45AN-CTW  | APSDM004G45AN-PTW  |
|                                                   | 8GB  | APSDM008G45AN-CTW  | APSDM008G45AN-PTW  |
|                                                   | 16GB | APSDM016G45AN-CCW  | APSDM016G45AN-PCW  |
|                                                   | 32GB | APSDM032G45AN-CCW  | APSDM032G45AN-PCW  |
| SDM4 22P/180D<br>High speed type                  | 4GB  | APSDM004G45AD-CT   | APSDM004G45AD-PT   |
|                                                   | 8GB  | APSDM008G45AD-CT   | APSDM008G45AD-PT   |
|                                                   | 16GB | APSDM016G45AD-CT   | APSDM016G45AD-PT   |
|                                                   | 32GB | APSDM032G45AD-CC   | APSDM032G45AD-PC   |
|                                                   | 64GB | APSDM064G45AD-CC   | APSDM064G45AD-PC   |
| SDM4 22P/180D ET<br>High speed type               | 4GB  | APSDM004G45AD-CTW  | APSDM004G45AD-PTW  |
|                                                   | 8GB  | APSDM008G45AD-CTW  | APSDM008G45AD-PTW  |
|                                                   | 16GB | APSDM016G45AD-CTW  | APSDM016G45AD-PTW  |

|  |      |                   |                   |
|--|------|-------------------|-------------------|
|  | 32GB | APSDM032G45AD-CCW | APSDM032G45AD-PCW |
|  | 64GB | APSDM064G45AD-CCW | APSDM064G45AD-PCW |

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.

*Kevin Pan*

Product Manager  
Value Added Product Division