

Product Change Notification Form

PCN #: PCN-000354-EXT

Rev: 2

Issue Date: August 21, 2015

Type of Change: Hardware Changes

Detailed Description of Change: SanDisk will implement minor component changes to the Optimus.2 Ascend/Ultra/Extreme SSDs to resolve a unique user case in which the following issues were discovered:

- Slow-insertion and short duration power loss
- Power glitch causing a format corrupt

The following component changes will be implemented:

1. BOM change to increase the timing of the soft-start delay by changing two capacitor values.
2. BOM modification to increase current capability of 12V side of the dual-buck converter.
3. BOM change to use a buffer IC with a weaker output.

These changes are to add margin to rare occurrences that may arise, as a part of continuous improvement. All new product (shipped after July 31 2015), will include the minimal component changes that address these issues. The BOM changes do not significantly affect functional operation of the SSDs, and should not require full requalification by customers. SanDisk qualification reports will be made available regarding these changes by September 4, 2015.

To identify drives with the new hardware changes the DOM on the drive label will have a date of 31 July 2015 or later.



Reason for change: The changes helped resolve rare occurrences discovered during specific user case testing.

Products affected:

Part Number	Description
SDLKOEDM-200G-5CA1	Optimus.2 Ascend 19nm SAS 200GB (10DWPD)
SDLKODDM-400G-5CA1	Optimus.2 Ascend 19nm SAS 400GB (10DWPD)
SDLKOCDM-800G-5CA1	Optimus.2 Ascend 19nm SAS 800GB (10DWPD)
SDLLOCDM-016T-5CA1	Optimus.2 Ascend 19nm SAS 1.6TB (10DWPD)
SDLKOE9W-150G-5CA1	Optimus.2 Ultra 19nm SAS 150GB (25DWPD)
SDLKODGW-300G-5CA1	Optimus.2 Ultra 19nm SAS 300GB (25DWPD)
SDLKOCGW-600G-5CA1	Optimus.2 Ultra 19nm SAS 600GB (25DWPD)
SDLLOCGW-012T-5CA1	Optimus.2 Ultra 19nm SAS 1.2TB (25DWPD)
SDLKOE9W-100G-5CA1	Optimus.2 Extreme 19nm SAS 100GB (45DWPD)
SDLKOD9W-200G-5CA1	Optimus.2 Extreme 19nm SAS 200GB (45DWPD)
SDLKOC9W-400G-5CA1	Optimus.2 Extreme 19nm SAS 400GB (45DWPD)
SDLLOC9W-800G-5CA1	Optimus.2 Extreme 19nm SAS 800GB (45DWPD)

Forecasted Key Milestones: N/A

Milestone	Date
Qualification Samples Availability	August 1, 2015
SanDisk Qualification Report Availability	September 4, 2015
First Availability of Post-Conversion Product (*)	August 1, 2015

Pre-Conversion Product Demand to Local Sales Representative due	N/A
Last Pre-Conversion Product Order	N/A
Last Pre-Conversion Product Shipment	N/A

(*) The date of "First Availability of Post-Conversion Product" is determined by the projected depletion of inventory at the time of the PCN publication. The depletion of inventory may be impacted by fluctuating supply and demand; therefore, although customers should be prepared to receive the Post-Converted Products on this date, we will continue to ship the pre-converted products until the inventory has been depleted.

Impact of Change and Recommended Action: N/A

Recommended Inventory Disposition: N/A

Change Type: N/A

Change	Date	Definition
Running Change Cut-in Date	August 1, 2015	With running change; change will be implemented by this date. However, being running change customer may continue to get mixed material until inventory depletion.
Hard Change Cut-in Date	August 15, 2015	With hard change; change will be implemented by this date and only material with this change will be shipped after this date. Old inventory will not be shipped to customer.

Reference Documents / Attachments: N/A

Should you have any issues with the timeline or content of this change, please contact the Representative listed below **within 30 days**. No response will be deemed as customer's acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this PCN.

Contacts:	Name	Email
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