

DEPT: Engineering

DOCUMENT NO.

412-0081-00

PRINT DATE: 2/3/2021

A

Page 1 of 2

Title of Change: Utility MLC & pSLC uSD and SD
Firmware Update

Date: 1/13/21

PCN No: 412-0081-00

PCN Effective Date: 1/13/21

Last Time Buy Date: N/A

Last Time Ship Date: N/A

Type of Change:

A new version of firmware has been released for the controller in the Delkin Utility uSD and SD cards, in both MLC and pSLC configurations, with some key enhancements.

Description of Change:

Changes / enhancements to the firmware include:

- Addition of new SMART attribute, reporting count of LBA's read and written
- Resolved bank switch function issue identified during code review. In this scenario, an internal controller register error occurs, triggered when the host repeatedly writes small chunks of data while the buffer blocks are full, resulting in a hang condition that is recovered with a power cycle.
- Updated Garbage Collection mechanism to prevent uneven wear-leveling

Reason for Change:

To improve card reliability and performance in host applications.

Products Affected:

4 – 128GB Utility / Utility+ MLC microSD and SD cards. 4GB – 16GB pSLC microSD and SD cards,, per part number list below..

Impact of Change / Recommended Actions:

Delkin recommends qualifying the new firmware version and migrating to the replacement part numbers. Contact your Delkin Devices Account Manager to request samples.

Reference Documents/Attachments:

List of part numbers affected by this PCN are shown on Page 2, with replacement part numbers.

Sincerely,



Tony Diaz
Product Management
Delkin Devices, Inc.

Affected Part Number	Replacement Part Number
S404APGEN-U3000-3	S404APGJN-U3000-3
S408APGEN-U3000-3	S408FQYJR-U3000-3
SF04APGEN-U3000-3	SF04APGJN-U3000-3
SE04APYE9-1B000-3	Contact Delkin
SE08APGE9-1B000-3	SE08APGJP-1B000-3
SE16ANZE9-1B000-3	SE16ANZJP-1B000-3
SE32ANZ49-3B000-3	SE32FQYFA-1B000-3
SE64ANZ5S-3B000-3	SE64FQYFA-1B000-3
SE1HANZ5S-3B000-3	SE1HFQYFA-1B000-3
SF04APYE9-U1000-3	Contact Delkin
SF08APGE9-U1000-3	SF08APGJP-U1000-3
SF16ANZE9-U1000-3	SF16ANZJP-U1000-3
SF32ANZ49-U3000-3	SF32FQYFA-U1000-3
SF64ANZ5S-U3000-3	SF64FQYFA-U1000-3
SF1HANZ5S-U3000-3	SF1HFQYFA-U1000-3
S304APYE9-U1000-3	S304GSEJ6-U3000-3
S308APGE9-U1000-3	S308APGJP-U1000-3
S316APGE9-U3000-3	S316APGJP-U3000-3
S332APG49-U3000-3	S332FQYFA-U1000-3
S364APG5S-U3000-3	S364FQYFA-U1000-3
S31HAPGAC-U3000-3	S31HFQYFA-U1000-3
S404APYE9-U1000-3	S404GSEJ6-U3000-3
S408APGE9-U1000-3	S408GSEJL-U1000-3
S416APGE9-U3000-3	S416GSEJL-U3000-3
S432APG49-U3000-3	S432VSKLB-U1000-3
S464APG5S-U3000-3	S464FQYFA-U1000-3
S41HAPGAC-U3000-3	S41HFQYFA-U1000-3