



Product Change Notice

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QMS Approval n° 9910354

Product Change Notice #: 012

Date: 17th September 2012

Title of Change: SDRAM Basic Device Replacement

Type Of Change

- | | |
|---|---|
| <input type="checkbox"/> Manufacturing Site Change | <input type="checkbox"/> Shipping / Packaging Material Change |
| <input type="checkbox"/> Manufacturing Process Change | <input type="checkbox"/> Packing / Label / Marking Change |
| <input checked="" type="checkbox"/> Product Revision | <input checked="" type="checkbox"/> Product End Of Life (EOL) |
| <input type="checkbox"/> Material Change | <input type="checkbox"/> Data Sheet Change |

Description of Change

3D Plus replaces the 64Mx8b and 32Mx16b SDRAM basic devices embedded in its Space Qualified SDRAM Memory Modules.

As a consequence, 3D Plus introduces New Space Qualified SDRAM Modules with the same configuration and form factor than the existing products – See affected product table below.

However, This Product Change will not affect 3D Plus SDRAM Memory Modules based on 128Mx4b SDRAM basic devices – See not affected product table below.

Reason for Change

- Products performance improvement through the successful characterization and space qualification of a new 512Mb SDRAM core device:

- High Density: 512Mb to 4Gb,
- Improved Radiation performance:
 - TID: >50 Krad(Si),
 - SEL: >80 Mev.cm2/mg
 - SEU LET Threshold: 7 MeV-cm2/mg, Saturate X-section : 2E-10cm2/bit
- Worldwide Delivery Guarantee.

- 3D Plus Space Qualified new SDRAM Memory Modules are Function – Package - Footprint compatible with our existing modules and do not require modification of our customers applications.

- The new SDRAM Memory Modules are fully compliant to the 3D Plus Capability Domain qualified by European Space Agency (ESA) for Space Application and benefit from all the 3D Plus Qualification Data.

The detailed qualification report and the Radiation test (TID, SEE) reports are available on request.

Contact Information

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Product Affected

Module Description	EOL Part Number	Replacement & New Introduction
x16bits SDRAM	-	3DSD512M16VS1605
x16bits SDRAM	-	3DSD1G16VS2494
x16bits SDRAM	-	3DSD4G16VS8483
x32bits SDRAM	-	3DSD1G32VS2490
x32bits SDRAM	-	3DSD2G32VS4484
x40bits SDRAM	3DSD2G40VS5430	3DSD2G40VS5493
x48bits SDRAM	3DSD3G48VQ6365	3DSD3G48VQ6486
x48bits SDRAM	-	3DSD3G48VQ6606
X64bits SDRAM	3DSD4G64VB8035	3DSD2G64VB4488
X64bits SDRAM	3DSD2G64VB4130	3DSD2G64VB4488
X72bits SDRAM	3DSD2G72VB5112	3DSD2G72VB5489

Product Not Affected (128Mx4b Basic Device)

Module Description	Part Number
x4bits SDRAM	3DSD512M04VS1286
x8bits SDRAM	3DSD2G08VS4030
x8bits SDRAM	3DSD2G08VS4142
x8bits SDRAM	3DSD1G08VS2143
x8bits SDRAM	3DSD4G08VS8184
x8bits SDRAM	3DSD4G08VS8213
X16bits SDRAM	3DSD2G16VS4364
X24bits SDRAM	3DSD3G24VS6262
X32bits SDRAM	3DSD4G32VS8482

3D PLUS Sites Affected

3D PLUS Buc High Rel. 3D PLUS Buc Indus.

Coming into force

PCN Coming into force: Immediate effect