

August 31 , 2007



Dear Customer:

The purpose of this letter is to inform you that Aeroflex has a finite quantity of die inventory for our 3V 4M SRAM Quantified Commercial-Off-The Shelf (QCOTS™) product used in the UT8Q512K8 and UT8Q512K32 devices. Aeroflex will continue to offer the remaining die until the inventory exhausts.

Aeroflex's replacement devices for the UT8Q512K8 and UT8Q512K32 devices are the new RadTolerant UT8Q512K8E and UT8Q512K32E based on Aeroflex's memory technology designs. The new designs will be a functional replacement offered via SMD (Standard Microcircuit Drawing) and available mid-2008. Aeroflex successfully migrated our 5V 4M SRAM QCOTS in April 2007.

**Products affected by the die inventory**

Product	Existing Part Number	Replacement Part Number	Standard Microcircuit Drawing	Package
3.3V 4M SRAM	UT8Q512	UT8Q512E	5962-99607	36-lead CFP
3.3V 16M SRAM MCM	UT8Q512K32	UT8Q512K32E	5962-01533	68-lead CQFP
3.3V 8M SRAM	UT8Q1024K8	Reached EOL	5962-01532	44-lead CFP

The following AC and DC Electrical Characteristic differences have been identified between the 3V QCOTS and the new 3V RadTolerant devices.

**AC and DC Electrical Characteristic Differences (4M SRAM)**

Specification	UT8Q512 3V QCOTs	UT8Q512E 3V RadTolerant
I <sub>DD2</sub> (SB) @ 0MHz (-55°C & 25°C)	6mA	8mA
I <sub>DD2</sub> (SB) @ 0MHz (125°C)	12mA	40mA
t <sub>WHQX</sub>	5ns (min)	4ns (min)
t <sub>WHAX</sub>	0ns (min)	2ns (min)

**Note:**

1. At maximum operating speed the RadTolerant replacement 4M device uses 80% less current (30mA vs. 180mA)

**AC and DC Electrical Characteristic Differences (16M SRAM)**

Specification	UT8Q512K32 3V QCOTs	UT8Q512K32E 3V RadTolerant
I <sub>DD2</sub> (SB) @ 0MHz (-55°C & 25°C)	6mA (per byte)	8mA (per byte)
I <sub>DD2</sub> (SB) @ 0MHz (125°C)	12mA (per byte)	40mA (per byte)
t <sub>GLOX</sub>	3ns (min)	0ns (min)
t <sub>WHAX</sub>	0ns (min)	2ns (min)
t <sub>WHQX</sub>	5ns (min)	4ns (min)
t <sub>WHDX</sub>	0ns (min)	2ns (min)

**Note:**

1. At maximum operating speed the RadTolerant replacement 16M device uses 80% less current (30mA vs. 180mA per byte)



Aeroflex packaging engineers have identified the following fit and form differences between the 3V QCOTS and the new 3V RadTolerant device packages. A comparison of the package differences is shown below.

#### Fit and Form Differences

##### 4M Package Dimension Differences

	<b>UT8Q512 3V QCOTs</b>	<b>UT8Q512E 3V RadTolerant</b>
<b>Length</b>	.920 ± .010	.920 ± .010
<b>Width</b>	.480 ± .005	.580 ± .005
<b>Height</b>	.124 ± .013	.117 ± .013

##### 16M Package Dimension Differences

	<b>UT8Q512K32 3V QCOTs</b>	<b>UT8Q512K32E 3V RadTolerant</b>
<b>Length (ceramic)</b>	.880 ± .009	.980 ± .009
<b>Width (ceramic)</b>	.880 ± .009	.980 ± .009
<b>Height (includes lids)</b>	.205 ± .016	.209 ± .020

For application questions regarding fit, form, and function of the 3V QCOTS or the new 3V RadTolerant memory devices, please contact Mike Leslie at (719) 594-8148 or e-mail [leslie@aeroflex.com](mailto:leslie@aeroflex.com)

Aeroflex provides this product information to allow customers to plan in advance of this product modification. If you have any questions please contact me at (719) 594-8252 or e-mail [Jordan@aeroflex.com](mailto:Jordan@aeroflex.com). Aeroflex looks forward to continued business with your company.

Regards,

Anthony Jordan  
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