



March 3, 2006

Dear Customer:

The purpose of this letter is to update you on the die inventory of our 5V 4M SRAM Quantified Commercial-Off-The Shelf (QCOTS™) used in the UT9Q512K8 and UT9Q512K32 products. In June 2005 we announced the finite supply of the commercial die source would exhaust in 6 to 8 months. The die inventory has exhausted. A very small amount of packaged units remain in finished goods inventory. The shielded 36-lead CFP is now obsolete.

Products affected by the die are listed below.

Product	Part Number	Standard Microcircuit Drawing	Package
5V 4M SRAM	UT9Q512K8	5962-00536	36-lead CFP 36-lead CFP <sup>1</sup> (Shielded)
5V 16M SRAM MCM	UT9Q512K32	5962-01511	68-lead CQFP

Note:

1. The 36-lead Shielded CFP has reached End of Life (EOL).

As an alternative SRAM solution, Aeroflex offers a 3-volt (3V) 4M and 16M SRAM, UT8Q512K8 and UT8Q512K32 QCOTS SRAM. Data Sheets for the 3V QCOTS SRAM solutions can be found at [www.aeroflex.com/QCOTS](http://www.aeroflex.com/QCOTS).

Product	Status	Part Number	Standard Microcircuit Drawing	Lead Time	Package
3V 4M SRAM	In Production	UT8Q512K8	5962-99607	6 to 8 wks	36-lead CFP 36-lead CFP <sup>1</sup> (Shielded)
3V 16M SRAM MCM	In Production	UT8Q512K32	5962-01533	6 to 8 wks	68-lead CQFP
5V 4M SRAM	In Development	UT9Q512K8E	5962-00536 <sup>2</sup>	4Q06	36-lead CFP
5V 16M SRAM MCM	In Development	UT9Q512K32E	5962-01533 <sup>3</sup>	4Q06	68-lead CQFP

Note:

1. The 36-lead Shielded CFP has reached End of Life (EOL).
2. It will be added as devices 5 and 6 to the SMD.
3. It will be added as devices 3 and 4 to the SMD.

Aeroflex continues to make progress in the development of a 5V 4M replacement based on existing Aeroflex development memory technology. The 5V replacement product would be available in late-2006 to a QML Q and V level. At this time, we continue to project the 5V 4M SRAM will be a functional replacement. The following AC and DC Electrical Characteristic differences have been identified.

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

Specification	Existing	New
I <sub>DD2</sub> (SB) @ 0MHz (-55°C & 25°C)	6mA	8mA
I <sub>DD2</sub> (SB) @ 0MHz (125°C)	12mA	20mA
t <sub>WHQX</sub>	5ns (min)	4ns (min)
t <sub>WHAX</sub>	0ns (min)	2ns (min)

Note:

1. At maximum operating speed the new 4M uses 80% less current - 30mA vs. 180mA

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

Function	Existing	New
I <sub>DD2</sub> (SB) @ 0MHz (-55°C & 25°C)	24mA	32mA
I <sub>DD2</sub> (SB) @ 0MHz (125°C)	48mA	80mA
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 new 16M uses 80% less current - 720mA vs. 100mA

Aeroflex packaging engineers have identified fit and form differences in both the 4M and 16M packages. A comparison of the package differences is shown below. For application questions regarding fit, form, and function of either the current 3V QCOTS SRAM or the new 5V SRAM replacement, please contact Don Cooper at (719) 594-8148 or e-mail [cooper@aeroflex.com](mailto:cooper@aeroflex.com).

**Fit and Form Differences****4M Package Differences**

	Existing	New
Length	.920 ± .010	.920 ± .010
Width	.480 ± .005	.580 ± .005
Height	.124 ± .013	.117 ± .013

**16M Package Differences**

	Existing	New
Length (ceramic)	.880 ± .009	.980 ± .009
Width (ceramic)	.880 ± .009	.980 ± .009
Height (includes lids)	.205 ± .016	.209 ± .020

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  
 Director of Standard Products

Aeroflex Colorado Springs