



April 16, 2007

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 UT9Q512 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	UT9Q512	5962-00536	36-lead CFP 36-lead CFP ¹ (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, UT8Q512 and UT8Q512K32 QCOTS SRAM. Data Sheets for the 3V QCOTS SRAM solutions can be found at www.aeroflex.com/QCOTS.

Product	Status	Part Number	Standard Microcircuit Drawing	Lead Time	Package
3V 4M SRAM	In Production	UT8Q512	5962-99607	6 to 8 wks	36-lead CFP 36-lead CFP ¹ (Shielded)
3V 16M SRAM MCM	In Production	UT8Q512K32	5962-01533	6 to 8 wks	68-lead CQFP
New 5V 4M SRAM	In Production	UT9Q512E	5962-00536 ²	6 to 8 wks	36-lead CFP
5V 16M SRAM MCM	In Development	UT9Q512K32E	5962-01511 ³	2Q07	68-lead CQFP

Note:

1. The 36-lead Shielded CFP has reached End of Life (EOL).
2. Added as devices types 05 and 06 to the current SMD.
3. It will be added as device type 02 to the current SMD.

Aeroflex has completed development of a 5V 4M replacement based on existing Aeroflex development memory technology. Production shipments are now available for the 5V 4M replacement SRAM. The following AC and DC Electrical Characteristic differences have been verified.

AC and DC Electrical Characteristic Differences (4M SRAM)

Function	UT9Q512	UT9Q512E
I _{DD} (SB) @ 0MHz (-55°C & 25°C)	6mA	10mA
I _{DD} (SB) @ 0MHz (125°C)	12mA	45mA
I _{DD}	180mA@40MHz	76mA@50MHz
t _{AVQV}	25ns	20ns
t _{ETQV}	25ns	20ns
t _{WHQX}	5ns (min)	4ns (min)
t _{WHAX}	0ns (min)	2ns (min)

Aeroflex is in the developmental process for the 5V 16M MCM replacement based on existing Aeroflex development memory technology. The 5V 16M MCM SRAM replacement products will be available in July 2007. The following AC and DC Electrical and Temperature Characteristic differences are projected and will be verified prior to product release.

AC and DC Electrical Characteristic Differences (16M SRAM)

Function	UT9Q512K32	UT9Q512K32E
I _{DD2} (SB) @ 0MHz (-40°C & 25°C)	24mA	40mA
I _{DD2} (SB) @ 0MHz (125°C)	48mA	TBD
t _{GLQX}	3ns (min)	0ns (min)
t _{WHAX}	0ns (min)	2ns (min)
t _{WHQX}	5ns (min)	4ns (min)
t _{WHDX}	0ns (min)	2ns (min)

Note:

1. TBD - will be less than 180mA

Temperature Range Difference (16M SRAM)

Function	UT9Q512K32	UT9Q512K32E
16M SRAM	-40°C to 125°C	-40°C to 105°C

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.

Fit and Form Differences

4M Package Differences

Dimension	UT9Q512	UT9Q512E
Length	.920 ± .010	.920 ± .010
Width	.480 ± .005	.580 ± .005
Height	.124 ± .013	.117 ± .013

Note:

1. The 4M SRAM pin-out is identical both in numbering and functional parameter location.

16M Package Differences

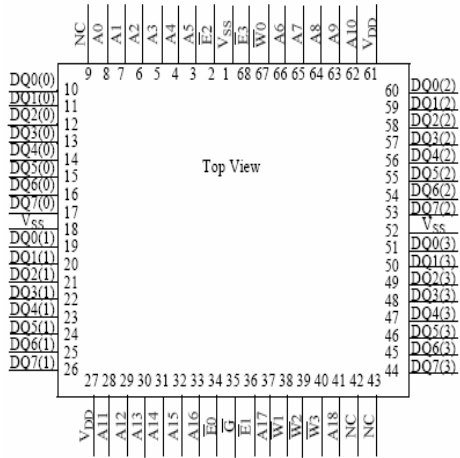
Dimension	UT9Q512K32	UT9Q512K32E
Length (ceramic)	.880 + .009	.980 + .009
Width (ceramic)	.880 + .009	.980 + .009
Height (includes lids)	.205 + .016	.209 + .020

Note:

- 1: The 16M SRAM pin-out is identical in functional parameter location while the numbering location has been changed as shown in the following figure.

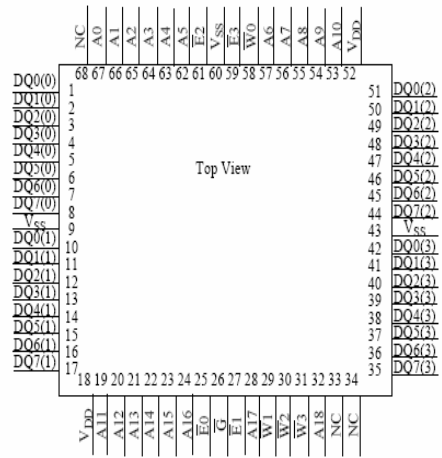
UT9Q512K32 SRAM

Pin-out



UT9Q512K32E SRAM

Pin-out



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

Regards,

Anthony Jordan
 Director of Standard Products
 Aeroflex Colorado Springs