

# Mobile DDR SDRAM Addendum

MT46H64M16LF - 16 Meg x 16 x 4 banks MT46H32M32LF - 8 Meg x 32 x 4 banks

#### Table 2: **Configuration Addressing**

Architecture	64 Meg x 16	32 Meg x 32	Reduced Page-Size Option 32 Meg x 32
Configuration	16 Meg x 16 x 4 banks	8 Meg x 32 x 4 banks	8 Meg x 32 x 4 banks
Refresh count	8K	8K	8К
Row addressing	16K (A0–A13)	8K (A0–A12)	16K (A0–A13)
Column addressing	1K (A0–A9)	1K (A0–A9)	512 (A0–A8)

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### **FBGA Part Marking**

Due to space limitations, FBGA-packaged components have an abbreviated part marking that is different from the part number. Micron's FBGA Part Marking Decoder is available at www.micron.com/decoder.

#### **General Description**

The information in this addendum is specific to the 1Gb: x16, x32 Mobile DDR SDRAM VFBGA-packaged part. For detailed specification information, refer to the 1Gb Mobile DDR SDRAM data sheet available on Micron's Web site: www.micron.com.

**Note:** Any values specified in this addendum replace the same values listed in the 1Gb Mobile DDR SDRAM data sheet.



## **Electrical Specifications**

#### Table 3: IDD Specifications and Conditions (x16/x32)

Refer to the standard product data sheet for applicable notes; VDD/VDDQ = 1.70-1.95V

		Max					
Parameter/Condition	Symbol	-5	-54	-6	-75	Unit	Notes
<b>Precharge power-down standby current:</b> All banks idle; Cl LOW; CS is HIGH; <sup>t</sup> CK = <sup>t</sup> CK (MIN); Address and control inputs a switching; Data bus inputs are stable	KE is IDD2P are	1,200				μA	7, 8
<b>Precharge power-down standby current:</b> Clock stopped; A banks idle; CKE is LOW; CS is HIGH; CK = LOW, CK# = HIGH; Add and control inputs are switching; Data bus inputs are stable	ll IDD2PS dress	1,200				μA	7
<b>Precharge nonpower-down standby current:</b> Clock stopped All banks idle; CKE = HIGH; CS = HIGH; CK = LOW, CK# = HIGH Address and control inputs are switching; Data bus inputs are stable	ed; IDD2NS	28	26	25	20	mA	9
<b>Active power-down standby current:</b> One bank active; CKE = LOW; CS = HIGH; <sup>t</sup> CK = <sup>t</sup> CK (MIN); Address and control in are switching; Data bus inputs are stable	puts	4.6			mA	8	
Active power-down standby current: Clock stopped; One bank active; CKE = LOW; CS = HIGH; CK = LOW; CK# = HIGH; Address and control inputs are switching; Data bus inputs are stable		4.6				mA	
Auto refresh: Burst refresh; CKE = HIGH;tRFC = tREFIAddress and control inputs are switching; Databus inputs are stable		16	16	16	15	mA	10, 11

#### Table 4: Electrical Characteristics and Recommended AC Operating Conditions

Refer to the standard product data sheet for applicable notes; VDD/VDDQ = 1.70-1.95V;  $+85^{\circ}C \le operating temperature \le +105^{\circ}C$ 

		-5		-54		-6		-75			
Parameter	Symbol	Min	Max	Min	Max	Min	Мах	Min	Max	Unit	Notes
Refresh period	<sup>t</sup> REF	-	16	-	16	-	16	-	16	ms	
Average periodic refresh interval	<sup>t</sup> REFI	-	1.95	-	1.95	-	1.95	-	1.95	μs	22



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This data sheet contains minimum and maximum limits specified over the power supply and temperature range set forth herein. Although considered final, these specifications are subject to change, as further product development and data characterization sometimes occur.

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# **Revision History**

<b>Rev. B</b>	
	<ul> <li>Restructured to include latest product data sheet changes/updates</li> <li>Updated to "Production" status</li> </ul>
Rev. A	
	Initial revision