

## Mobile DRAM



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### K4X1G323PD

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### General Description

Mobile DRAM is a version of the standard DRAM memory, but is redesigned specifically for deployment in handheld, battery-powered devices, such as mobile phones, PDAs, PMPs, and tablet computers, with the primary objective of reducing power consumption and extending the device's battery life. Mobile DRAM operates at substantially low voltages, significantly reducing power consumption, yet maintaining the performance levels for the device that it is deployed in. Mobile DRAM also offers additional benefits of higher memory densities and operating speeds, resulting in faster data transfers for the device.

Portable computing and communication devices such as tablet computers and smartphones are the primary areas of deployment for mobile DRAM. Standards for this memory have officially undergone several revisions, and have resulted in significant improvements in density, operating speed, power consumption, and bandwidth. The technology is capable of meeting the increasing bandwidth demands of tablet computers, and other similar mobile computing devices. Handheld, power-conscious devices, such as ebook readers, "always on" Internet access devices, such as tablet computers, and advanced mobile devices, such as smartphones and PDAs, stand to benefit the most from developments in mobile DRAM. Worldwide, Samsung is the largest provider of advanced memory technologies, including mobile DRAM. Samsung mobile DRAM provides an array of advanced features, such as ultra-low power consumption levels, high operating speeds, the smallest package sizes and form factors, and exceptional reliability, and is thus the default choice for deployment on the most advanced computing and communication platforms.

### Specifications

Density	1Gb
Organization	32Mx32
Speed(Mbps)	C8, C6, C3
Package	90FBGA
Vdd/Vddq(V)	1.8/1.8
Temperature(C)	E, G
Production Status	EOL
Application	Cellphone, Smart Phone, PDA, Tablet PC, Navigation

### RoHS Information

For more information, please [click](#) the button next to the product name

- Declaration letter
- Does not contain hazardous materials defined in [China RoHS](#)
- Contains hazardous materials defined in [China RoHS](#)

- K4X1G323PD-8GC3 is Lead-free, RoHS compliant & Halogen-free.
- K4X1G323PD-8GC6 is Lead-free, RoHS compliant & Halogen-free.
- K4X1G323PD-8GC8 is Lead-free, RoHS compliant & Halogen-free.
- K4X1G323PD-W100 is Lead-free and RoHS compliant.
- K4X1G323PD-W200 is Lead-free and RoHS compliant.
- K4X1G323PD-W300 is Lead-free and RoHS compliant.

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#### Related Photo

Product images are accurate at the time of publication. However, subsequent product improvements may render some details inaccurate.

#### 30nm class 16Gb LPDDR2 DRAM

Jan 31, 2012

30nm class 16Gb LPDDR2 DRAM, 30nm class 16Gb LPDDR...

#### Related Document

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	Application Note	Mobile DRAMs Frequently violated parameters Appli	(Aug, 01, 2009)
	Application Note	General PCB Design Guidelines for Mbbile DRAM	(Aug, 01, 2009)
	Application Note	UtiRAM and UtiRAM2's Frequently violated parameters	(Aug, 01, 2009)
	Application Note	MRS/ CRE setting issues of UtiRAM and UtiRAM2	(Aug, 01, 2009)
	Brochure File	Smart Memory	(Dec, 05, 2013)
	Brochure File	Samsung Mobile DRAM Brochure	(Aug, 29, 2013)
	Print Ads File	Smart Memory	(Nov, 01, 2013)



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