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# K4X1G323PD

For more details about product specifications or technical files, please inquire through 'Contact us' Some information may be limited to the authorized person or company.

### **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, PNPs, 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

D	Declaration letter	
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- 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-W200 is Lead-free and RoHS compliant.

   K4X1G323PD-W200 is Lead-free and RoHS compliant.





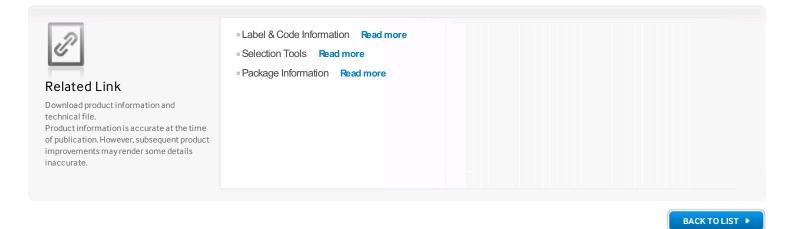


# Related Document

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

Application Note	PDF	Mobile DRAMs Frequently violated parameters Appli	(Aug, 01, 2009)
Application Note	PDF	General PCB Design Guidelines for Mobile DRAM	(Aug, 01, 2009)
Application Note	PDF	UtRAM and UtRAW2's Frequently violated parameters	(Aug, 01, 2009)
Application Note	PDF	MRS/ CRE setting issues of UtRAM and UtRAV2	(Aug, 01, 2009)
<sup>©</sup> Brochure File	PDF	Smart Memory	(Dec, 05, 2013)
Brochure File	PDF	Samsung Mobile DRAM Brochure	(Aug, 29, 2013)
• Print Ads File	PDF	Smart Memory	(Nov, 01, 2013)





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