

SanDisk® Storage Solutions

For The Mobile Handset Vendor Market



SanDisk®



SanDisk® offers a broad range of flash data storage products, including microSD™, miniSD™, iNAND™, mDOC H3, Memory Stick PRO Duo™ and Memory Stick Micro™ M2.

All of these products share the leading edge technology for which SanDisk is known and are targeted for the mobile handset vendor market.

The world goes mobile

In the past decade, the communication industry went through one of the most revolutionary and significant transformations it ever experienced. Disruptive technologies and new ways of communication changed the way people interact, share, experience and discover.

With networks and technologies “converging” in a rapid pace, the new multimedia mobile handset device is already well positioned as the centric element driving this new lifestyle.

Yet, without high-capacity storage, even the most advanced multimedia mobile handset would be limited to voice calls only. High-capacity storage enables and drives people to experience everything, everywhere, at all times.

Driving the Mobile World

with innovative **storage solutions**

The SanDisk line of smart mobile storage solutions is designed to meet and exceed today's stringent size, capacity and performance demands for increasingly compact, multi-function mobile devices.

A pioneer and leader in the field, SanDisk designs and manufactures NAND flash memory, develops the complete system chip design, state-of-the-art controllers and advanced flash management software. Through these capabilities and by working very closely with customers, partners and the markets served, SanDisk continually sets the standard for quality, reliability and performance.

With more than 19 years of flash semiconductor technology innovation and expertise, a focused intellectual property portfolio and leadership as a solution provider for the mobile handset industry, the complete range of SanDisk memory solutions ensures that OEMs, MNOs and consumers can fully exploit a new world of multimedia.

- **Memory cards – microSD, miniSD, Memory Stick PRO Duo, and Memory Stick Micro M2**
- **Embedded Flash Drives (EFDs) – iNAND and mDOC H3**
- **SIM cards and SIM cards with high-capacity storage**
- **TrustedFlash™ - Security, DRM and content transportability**

Complete Mobile Storage Offering

The newest generation of ultra-small, feature-rich mobile handsets demands high-capacity storage enabling end users to enjoy, share, and explore a rich world of content. With high-capacity storage, both OEMs and MNOs are better positioned to promote usage of value-added services and consumption of premium content.

Faced with increasing market demands and competition, OEMs need to quickly introduce the newest designs, smart, functional and reliable devices that exceed user requirements and are always a step ahead of competition.

SanDisk Memory Cards

- Industry standard – from the popular miniSD and microSD to the newest line of TrustedFlash cards, SanDisk supports all major industry-standard interfaces and the broadest line of form factors.
- Flexibility – OEMs can bundle a card and configure handset memory at the last stage of manufacturing, giving them a new level of inventory control and marketing flexibility.
- Leading brand – complete product line installed in hundreds of millions of mobile handsets worldwide with strong industry and retail support.
- Security – TrustedFlash hardware protection, security and DRM support enable the protection of critical data, personal information and premium content.

SanDisk Embedded Flash Drives

- High capacity – the most advanced MLC NAND flash based solutions featuring the highest capacities and superior system performance in the smallest form factors.
- Plug-and-play integration – incorporating smart flash management software into embedded controllers as firmware standardizes both hardware and software interfaces.
- Faster time to market – ready made, customized software implementation and integration schemes save handset development time, reduce project risks and improve system reliability.
- Global technical support – a comprehensive set of industry skills and know-how to help guide you every step of the way to achieve smooth integration, system optimization, and fast product introduction.

Complete Mobile Storage Offering

SanDisk Memory Cards

SanDisk flash memory cards provide OEMs with an advanced high-capacity data storage solution to meet the increasing storage and performance requirements for multimedia, music, digital imaging, video, gaming, email and more.

Reliable, high-performance removable SanDisk memory cards together with SanDisk TrustedFlash technology enable mobile device users to transfer their personal content, applications and system settings from one device to another, or among several different devices such as their computer, MP3 player and more.

TrustedFlash™

TrustedFlash technology makes it possible for premium content to be stored securely on removable memory cards. With TrustedFlash cards you can preload secure data and offer value-added content as well as enable new and existing services. TrustedFlash cards can be customized to meet security requirements by integrating the chosen security solution and DRM scheme, allowing content portability across many devices.

SanDisk microSD™ Card

Measuring just 11mm x 15mm and 1mm thick, SanDisk microSD card is the most widely adopted form factor worldwide – an ultimate storage solution for the next generation of increasingly compact handset designs. The microSD is available in 128MB to 4GB* capacities.



SanDisk miniSD™ Card

The miniSD card is designed specifically to meet the needs of today's compact mobile handsets. SanDisk miniSD cards are based on the popular SD card and use the same powerful, simple, high-performance interface SD offers. The miniSD provides full compatibility and interoperability with any SD host by using an available passive adapter. The miniSD card is available in 128MB to 4GB capacities.



SanDisk Memory Stick PRO Duo™ Card

The SanDisk Memory Stick PRO Duo card provides high-capacity memory with the data transfer speeds of the Memory Stick PRO™ interface. In addition to its use in mobile phones and other mobile devices where size is critical, SanDisk Memory Stick PRO Duo cards are highly secured, using the advanced MagicGate™ copy protection. Available in capacities from 64MB to 4GB.



SanDisk Memory Stick Micro™ M2

M2 is fully backwards compatible (using an adapter) with all Memory Stick PRO hosts. In addition, an optional low-voltage interface addresses the 1.8V power supply requirements of Sony Ericsson™ handsets. SanDisk Memory Stick M2™ measures 12.5mm x 15mm x 1.2mm, weighs 0.42 grams and is available in capacities from 64MB to 2GB.



Embedded Flash Drives (EFDs)

The SanDisk EFD product line advances embedded flash drive architecture, by building smart flash management software into its controller as firmware, rather than running it on the host processor, and by standardizing the hardware interface. This ensures device reliability, maximizes device life expectancy, and masks inherent raw NAND flaws, helping OEMs meet aggressive time-to-market schedules, within budget.

SanDisk mDOC H3

Boot and data storage in one device

mDOC H3 offers handset designers data storage and XIP boot capabilities in one device. Utilizing an industry standard NOR-like interface together with patented TrueFFS® flash management technology, mDOC H3 provides a reliable and cost-effective solution, eliminating the need for a separate boot device.

Platform design fit solution

mDOC H3 features small FBGA discrete, MCP and POP (with LP DRAM) packages, with a wide range of capacities from 128MB to 4GB, making it a solution for all platform configurations. mDOC H3 feature the same ball-out, power management and hardware and software interface for all capacities.



SanDisk iNAND™

Mass storage

High-capacity embedded flash storage in a small, low-cost, JEDEC (JC-64.1) compatible package ball-out with proven reliability and easy upgradeability to meet the increasingly stringent requirements of today's storage-hungry applications. SanDisk iNAND is available in capacities from 512MB to 8GB.

Industry-standard interface

SanDisk iNAND is based on the industry-standard SD interface which offers seamless hardware and software integration and is fully backward compatible, significantly minimizing design risks.



* 1 megabyte (MB) = 1 million bytes; 1 gigabyte (GB) = 1 billion bytes.

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