

# SanDisk® Smart Storage Solutions

For Mobile Network Operators



As one of the world leaders in flash storage, and smart card innovation and production, SanDisk is uniquely positioned to offer mobile network operators (MNOs) and their subscribers a broad range of advanced, smart storage solutions.

From MNO-provisioned, high-capacity and standard SIM cards to easy-to-use removable flash memory cards and USB flash drives, SanDisk storage solutions bring subscribers the services and content they want. SanDisk TrustedFlash™ security platform offers MNOs a solution for storing protected content, and subscribers the freedom to move that content to other supported devices.

SanDisk provides MNOs with the most complete offering of off-the-shelf storage products, both secure and non-secure. In addition, SanDisk is ready to customize its products to meet specialized customer needs.

**SanDisk®**

## The SanDisk Family of SIM Cards

- SanDisk MegaSIM® – high-capacity SIM card, 128 megabyte (MB) to 1 gigabyte (GB)\*
- SanDisk SIM – legacy (U)SIM card
- SanDisk Virtual MegaSIM™ – legacy (U)SIM card with MegaSIM functionality

Available in capacities as high as 1GB, the SanDisk family of SIM cards gives subscribers quick, secure and easy access to compelling mobile services to provide MNOs with new revenue sources. An innovative architecture maintains complete SIM functionality compatible with legacy industry standards. Fast and secure, SanDisk SIM cards implement independent processing power, high-speed interfaces and advanced cryptography. They deliver extensive flash storage for both MNO-driven and subscriber-generated content.



The SanDisk MegaSIM architecture allows for easy provisioning and true security. Now MNOs can effectively distribute high-quality

content, securely and efficiently manage critical network resources, and offer subscribers a range of compelling new services and applications.

SanDisk Virtual MegaSIM technology uses a TrustedFlash-enabled removable memory card with a new or existing (U) SIM card to provide the benefits of MegaSIM cards sooner and across a broader range of mobile handsets. The Virtual MegaSIM technology also gives MNOs a more flexible offering by separating the memory from the SIM, allowing each to be defined separately, an advantage that can continue to be utilized even when MegaSIM is fully adopted.

## SanDisk TrustedFlash™ Security Platform

The TrustedFlash security platform, based on TrustedFlash security technology, extends the trusted environment to a new generation of flash



memory cards, USB flash drives and SIM cards. Now users have both portable and scalable storage for digital content and applications on all of their TrustedFlash-enabled devices,

whether mobile handsets, MP3/4 players or global positioning system (GPS) devices.

The TrustedFlash security platform:

- Supports full backward compatibility with all existing SD™ based cards.
- Supports existing standard security implementations (including symmetric, RSA and hashing).
- Integrates into existing operators' services with no server or backend changes.
- Enables new business models for revenue-generating applications and content-based services.
- Supports auto-launch and auto-connect upon card insertion.
- Stores licenses on the memory card, providing content portability to other authorized devices.

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

## SanDisk Removable Memory Cards

### SanDisk microSD™ Card



Measuring just 11mm x 15mm and only 1mm thick, SanDisk microSD is the most popular storage solution for the next generation of increasingly compact mobile phones. Available in capacities ranging from 128MB to 8GB, microSD makes it easy for mobile phone users to store and transport their multimedia-rich files, such as music, video clips and photographs.

### SanDisk miniSD™ Card



SanDisk miniSD is also based on the popular SD card, utilizing its powerful, simple, high-performance interface. The miniSD card, popular in Japan, provides an alternative form factor when total size is not critical enough to require a microSD. Available in capacities ranging from 128MB to 4GB, SanDisk miniSD card gives mobile handset designers and manufacturers more flexibility to differentiate their offerings.

### SanDisk Memory Stick PRO Duo™ Card



SanDisk Memory Stick PRO Duo provides high-capacity memory with the rapid data transfer speeds of Sony's Memory Stick PRO™ interface. Used in digital cameras, mobile phones and other mobile devices where its size is a good fit, the card can be highly secured with the advanced MagicGate™ copy protection technology. The Memory Stick PRO Duo card is available in capacities ranging from 128MB to 8GB.

### SanDisk Memory Stick Micro™ (M2) Card



Designed to meet the ultra-small storage requirements of mobile phones, the SanDisk Memory Stick Micro (M2) is fully backwards compatible, using an adapter, with all Memory Stick PRO Duo™ hosts. An optional low-voltage interface addresses the 1.8V power-supply requirements of Sony Ericsson™ handsets. The Memory Stick Micro measures 12.5mm x 15mm x 1.2mm, weighs 0.42 grams, and is available in capacities ranging from 128MB to 8GB.

## SanDisk pcSIM

The pcSIM is a unique portable platform based on the ubiquitous USB flash drive that combines the best of SIM-based authentication, secure high-capacity storage and telecom service delivery. The pcSIM, a powerful yet simple USB token, delivers SIM-based services and applications to PC and laptop users, and provides strong two-

factor authentication for online services via a USB port. Doubling as a secure storage device, pcSIM empowers MNOs to offer a wide array of telecom services and personal applications to their subscribers, beyond those offered on the mobile handset.

## **SanDisk, the Smart Choice for Smart Flash Storage Solutions**

As a large supplier of flash data storage products, SanDisk has a unique understanding of the mobile market. For over a decade, SanDisk has been designing, manufacturing and marketing robust, reliable and high-performance storage solutions for a wide variety of applications. SanDisk flash data storage offers you high overall performance and reliability in the form factor of your choice.

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