

Samsung's new flash chips for mobile devices

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Samsung 32GB microSD memory card

(PhysOrg.com) -- Samsung Electronics has announced two new flash chip storage devices for mobiles: a removable 32-Gbyte micro SD (secure digital) card and a 64-Gbyte moviNAND flash memory module. Both are based on Samsung's own 30 nanometer class 32-Gbyte NAND flash memory chips, which use lithography technology that allows much more storage in a smaller unit.

The removable SD flash card is only 1 mm thick and 0.7 mm high and will come into production in February. The card comprises a card controller and eight 30-micron thick stacked chips. Samsung says it is the highest capacity microSD ready for production. Users will be able to insert the 32-Gbyte micro SD card into their phone or other device via the built-in micro SD slot.

The 64-Gbyte flash chip is 1.4 mm thick and consists of sixteen stacked chips and a storage controller. This moviNAND embedded memory module has been in commercial production since December last year and will be the first to reach the marketplace. It doubles the memory of current memory modules such as that in the latest Apple [iPhone](#).

Higher capacity devices such as Samsung's new offerings will allow mobile devices such as smartphones and media players to have increased memory, and demand for more memory is expected to increase as the market for mobile devices and the applications they run continues to grow. Executive President of Memory Marketing for Samsung, Dong-Soo Jun, said the new memory solutions will bring the [storage capacity](#) of computers to mobile devices.

The expected cost of the two new high-density storage devices has not been released.

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