



New Product information from M-Systems

Date: 22 February 2005

<http://www.electronicstalk.com/news/mys/mys111.html>

USB 2.0 Flash storage enters embedded world

uDiskOnChip is an innovative solution that was developed specifically with embedded systems designers in mind.

Editor's note: Readers of the free Electronicstalk weekly email newsletter will have read this news the week it was announced.

uDiskOnChip USB 2.0 Flash storage is now available for the embedded market.

uDiskOnChip merges M-Systems' proven expertise in the USB 2.0 high-speed interface with its Flash knowhow in embedded systems to deliver the ideal storage solution for a vast array of markets such as thin clients, POS workstations, gaming, Single board computers (SBCs) and telecom infrastructure equipment.

uDiskOnChip is an innovative solution that was developed specifically with embedded systems designers in mind. It addresses the increasing need for high-performance, uncompromising reliability, and security and encryption features - all in a cost-effective, plug-and-play device. A version with extended temperature ranges is also available for industrial-type applications that must reliably operate within environmental extremes.

'uDiskOnChip is already being designed successfully into numerous embedded systems', said Amir Tirosch, General Manager of M-Systems' Embedded Division. 'uDiskOnChip, the fastest solution in the market today, is truly an integration of M-Systems' core competencies'. 'Particularly when you consider the added value of our innovative security and encryption features, uDiskOnChip really does provide designers of embedded systems with an unprecedented Flash offering for the embedded market'.

'With this new product, M-Systems has fused its unique position in embedded mass storage with its strong competence in USB Flash drives', said Semico Flash analyst Jim Handy. 'Given the astronomical growth in use of the USB interface, Semico would not be surprised to see this device propel widespread future use of Flash storage in embedded applications, especially those that endure an extreme operating temperature range'.

uDiskOnChip is available in capacities up to 2Gbyte and draws on the best of M-Systems' Flash expertise and innovative technology to deliver a range of added value benefits in a single device. M-Systems Fly-By acceleration algorithms maximise the capabilities of the USB 2.0 high-speed interface. This optimisation enables read rates as high as 20Mbyte/s, resulting in fast OS boot and application loading rates. Write rates reach 10Mbyte/s, enabling faster file caching. Data reliability and extended lifespan are achieved using M-Systems' industry-standard TrueFFS Flash-management algorithms, which are built into uDiskOnChip's firmware. Built-in security and cryptography are implemented in hardware using M-Systems' SuperMAP secure-chip expertise, enabling a variety of security-related applications for the system designer.