

Cost-Effective, Embedded Solid State Storage

Micron® RealSSD™ Embedded USB Products

Rugged, reliable, cost-effective, and small—Micron's RealSSD™ devices offer a choice in embedded data storage. With no moving parts, these embedded USBs don't hiss, screech, or bark; and they're far more durable than hard disk drives (HDDs). Plus, they're a lot smaller than most HDDs, and they use a universal serial bus and a USB interface, so they're easy to design in. They provide a complete solution for embedded, boot-up applications at prices below even low-cost HDDs.

And these low-cost, low-capacity storage solutions are available from a NAND Flash technology leader.

NAND Flash Know-How

Micron has NAND Flash knowledge. In fact, we hold thousands of NAND Flash technology patents. These advanced patents are at the heart of our RealSSD embedded USBs. From the silicon, to the NAND Flash, to the embedded USB device—Micron ensures the quality, performance, and functionality of our NAND innovations.

Innovative Technology

Innovation is the intersection of knowledge and capability, and innovation creates new directions for technology. Micron is known for advanced and innovative technology, and our RealSSD embedded USBs are a great example of how we've taken NAND Flash in an exciting and different direction.

6 Advantages of Designing with RealSSD Embedded USBs

1. Cost Effectiveness

Costs less to implement than even the least expensive HDDs.

2. Small Size

Smaller than a 1.8-inch HDD, the embedded USB lets you pack more features into less space.

3. Reliability

Withstands extreme shock and vibrations and has a wider operating temperature range than competing technologies, ensuring higher reliability in demanding environments.

4. Low Power

Draws less than 330mW of power when actively reading or writing data.

5. Performance

Enables faster boot-up (access time) than many HDDs, and the USB interface is already defined in most boot sequencers.

6. NAND Expertise

Extends Micron's proven quality, reliability, and compatibility in NAND to a new product line that can be designed in with confidence.

REALSSD

Micron®

Cost Effectiveness in a Small Package

RealSSD embedded USBs offer the right density ranges (1GB to 8GB) at the right price, and they do it in a package that's smaller than a 1.8-inch HDD. Why would you pay for more capacity than you really need for your embedded, boot application? Why would you waste space that could be devoted to advanced features? Our embedded USBs give you the right balance of performance, size, and cost.

Reliability in Harsh Environments

With no moving parts, the reliability of our embedded USBs far surpasses many of the best-in-class, rugged HDDs. These embedded storage devices can sustain 500G shocks and can operate at an extended temperature range of 0°C to +70°C or an industrial temperature range of -40°C to +85°C.

Low Power Consumption

Micron's RealSSD embedded USBs consume less than 330mW of power during active READ and WRITE operations, providing a significant power (and heat)

savings over many HDDs. In general, these lower-power embedded devices help to save money, reduce system heat, and conserve resources.

Performance

The RealSSD embedded USB doesn't suffer from any of the mechanical latencies that can hinder HDDs, so access times are practically nonexistent, and sequential read performance is on par with most 1.8-inch HDDs.

Designing with Micron

Micron is one of the world's leading memory solutions companies. For more than 30 years, we've been developing leading-edge memory technology. Now, we've applied our NAND Flash know-how to these new embedded storage devices and developed a solution that enables our customers to design better, faster, and less expensive products that have distinct competitive advantages.

For more information about Micron and our innovative approach to embedded memory, visit micron.com.

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