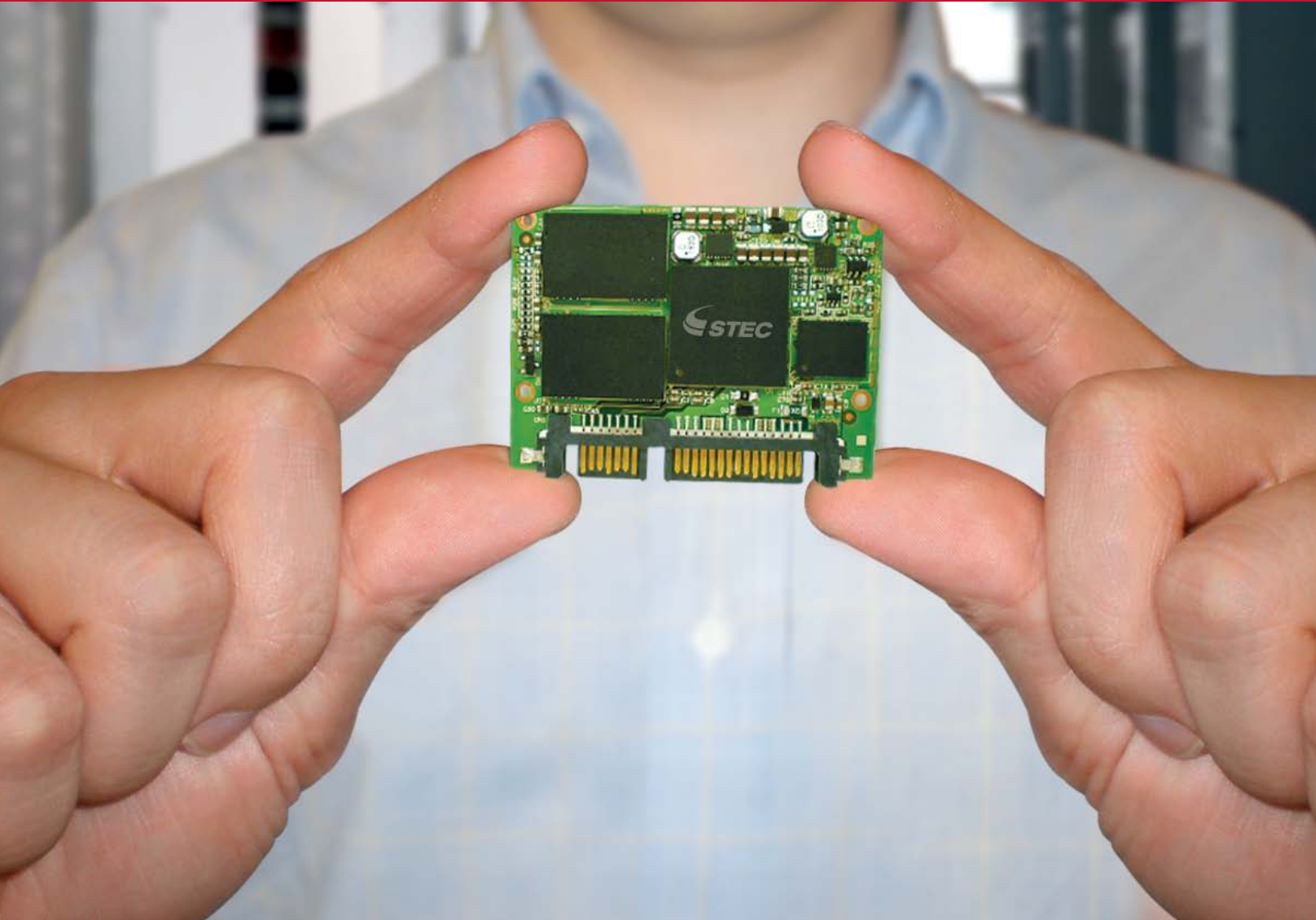
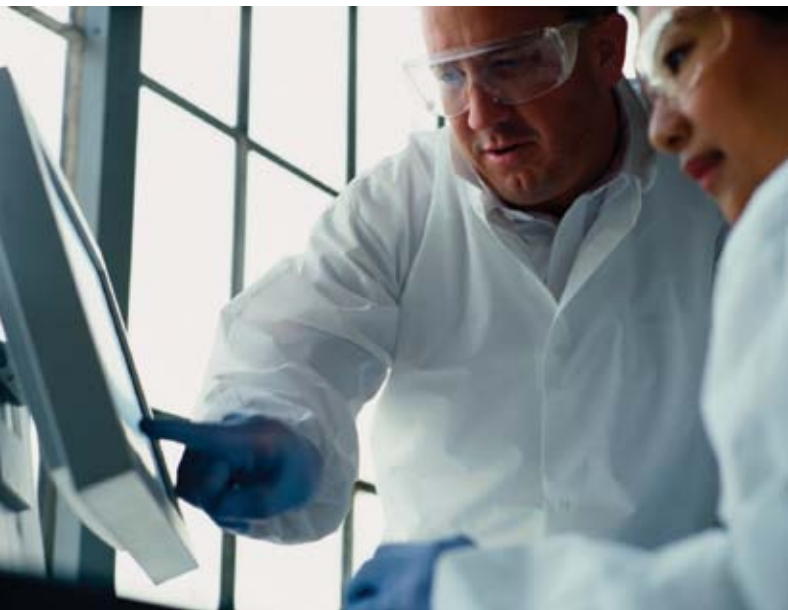


Accelerate Access to Data™

World-class engineering. Industrial-grade solid-state solutions.



It Takes World-Class Engineering to Make Best-In-Class Embedded SSDs



At STEC, we believe there are important differences between industrial-grade flash memory and less reliable alternatives designed for consumer products. We have addressed these crucial differences through our advanced solid-state drive (SSD) controller technology, which provides a robust foundation for a broad range of applications and markets.

Our embedded products have had successful and sustainable deployments in embedded markets, including automotive infotainment systems, industrial process control equipment, medical devices, GPS units, retail point-of-sale (POS) terminals, industrial PDAs, ruggedized embedded PCs, process control units and networking equipment—to name a few.

STEC's state-of-the-art patented SSD controller technology enables our embedded SSDs to match the performance, reliability and data integrity of our enterprise-class SSDs in a much smaller form factor that's ideal for embedded designs.

■ Advanced flash management

STEC provides industry-leading wear leveling and lifecycle management designed to meet stringent embedded product requirements.

■ Product customization

The STEC service portfolio includes solutions that make integration and support tasks easier, including firmware, IC stacks, imaging and labeling.

■ World-class manufacturing

STEC's manufacturing and quality assurance methodologies have earned the ISO 9001/14001 rating, and include rigorous wafer and die testing and industrial temperature screening.

■ Worldwide customer support

STEC support includes bill of materials (BOM) management and technical support by STEC's network of highly qualified field application engineers.

STEC Embedded Storage Products

Slim SATA Embedded Solid-State Drives

With their small footprint and up to 80 percent less power consumption than standard hard disk drives (HDD), STEC Slim SATA SSDs are an ideal drop-in replacement for conventional HDD storage, and provide an excellent option for embedded systems with tiered storage designs.

CFast™ Embedded Solid-State Drives SATA CompactFlash

STEC CFast SSDs combine an industry-standard CompactFlash card form factor and 24-pin SATA serial interface in a removable, rugged enclosure that provides a simple drop-in replacement for legacy PATA CompactFlash cards.

MACH2 CompactFlash Cards

The STEC MACH2 CompactFlash card is the solution of choice for embedded applications that demand high reliability and tolerance to shock, vibration, humidity, altitude and temperature.

MACH4 CompactFlash Cards

The STEC MACH4 CompactFlash card, the world's fastest solid-state memory card, is optimized for demanding embedded applications that require a combination of high capacity and throughput with the reliability of solid-state storage.

USB Flash Modules

STEC's USB Flash Module (UFM) provides nonvolatile, solid-state embedded NAND flash storage in a compact, easily integrated design that combines high performance, high reliability and low cost per megabyte.

USB Flash Drives

STEC's USB Flash Drive (UFD) provides nonvolatile, solid-state portable NAND flash storage in an ESD-rated enclosure that meets Network Equipment-Building System (NEBS) Level 3 standards. STEC's proprietary second-generation, USB 2.0 flash memory controller is integrated in the drive, providing high data reliability and endurance.



Slim SATA



CFAST™



MACH2



MACH4



UFM

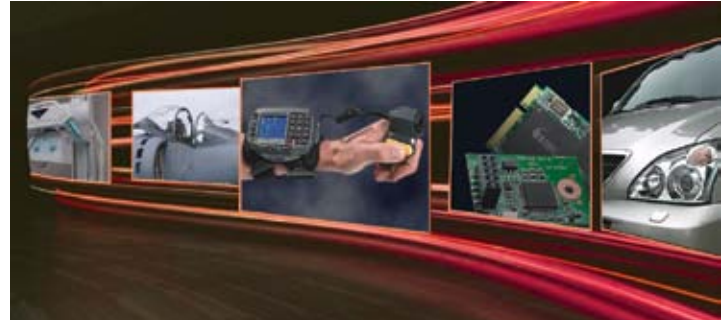


UFD

Your Strategic Embedded Storage Supplier

End-to-end embedded SSD solutions

STEC supports the newest flash technologies in most popular formats as the industry transitions from parallel to serial interfaces. STEC solutions are specifically designed for embedded applications, providing the advantages of unparalleled customization and design control.



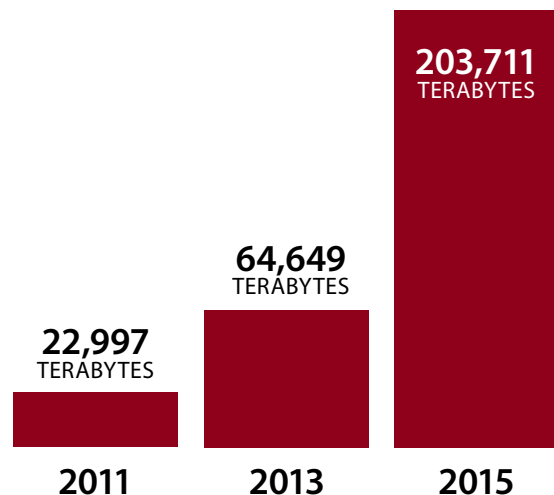
You can depend on STEC for a wide portfolio of small-format, cost-effective storage solutions engineered, manufactured and supported to meet the demanding requirements of your next embedded design.

The STEC embedded SSD portfolio offers high performance and a wide range of capacities, allowing you to select the right-sized storage for your embedded applications.

- **World-class engineering and manufacturing**
In-house controller development, manufacturing and production validation provide strategic advantages to the embedded industry, including advance product information, failure analysis, quality control, manufacturing and product availability, and a product roadmap aligned with industrial applications.
- **Worldwide customer support**
STEC has offices worldwide to provide you with the highest level of service and support that you require.
- **Quality and environmental management (ISO 9001 and 14001 certified)**
Extensive wafer and die screening, and 100 percent manufacturing validation have earned STEC compliance with the ISO 9001 standard for quality management, and the ISO 14001 standard for environmental management.
- **Supply-chain management**
Strong supply relationships ensure product supplies that you can depend on for your long-term embedded requirements.

Embedded Solutions Designed for Data Integrity, Reliability and Performance

“IDC is expecting application capacity requirements to increase as higher-capacity SSDs become more affordable.” (Source: IDC 2011)



“Commercial storage requirements are well aligned with the benefits of SSDs, such as their high reliability, extreme flexibility in both form factor and capacity, and ruggedness in harsh environments.” (Source: IDC 2011)

While embedded devices have many differences, they all share demanding storage requirements, including the need for data and code integrity, long-term endurance, high reliability, and fast read/write performance.

Like all embedded platforms, these solutions require low power consumption in small footprint devices designed for long product lifecycles, and engineered in many cases to operate under extreme environmental conditions.

To meet the data storage challenges of the new embedded world, you need industrial-grade flash solutions engineered from the ground up, with capabilities that no alternative consumer flash solution can match.

STEC makes your job easier with a wide range of scalable, long-life solid-state storage solutions, with interfaces, form factors and a range of capacities designed for easy integration in embedded systems.

Solid Answers in Embedded Storage

STEC has engineered the industry's most advanced line of embedded flash storage devices to meet the requirements of space-constrained and rugged embedded devices.

As flash geometries shrink, the potential Bit Error Rate (BER) grows. STEC is meeting the challenge with stronger error correction and flash management technologies.

- STEC's proprietary Secure Array of Flash Elements™ (SAFE) and CellCare™ technologies are groundbreaking controller innovations that ensure data integrity, endurance and performance in embedded applications.
- STEC flash memory is the solid-state storage solution of choice for applications that need to combine high reliability with high tolerance to shock, vibration, humidity and altitude.
- Industry-standard interfaces further simplify your design effort. The STEC embedded SSD portfolio includes PATA, SATA, and USB interfaces, while the enterprise SSD portfolio includes SAS, SATA, Fibre Channel and PCIe interfaces.
- STEC embedded storage solutions are available in a variety of space-saving industry-standard form factors including: CompactFlash, Slim SATA and CFast™ formats.
- Embedded SSD solutions typically consume far less power than full-size enterprise SSDs (in many cases less than 1 Watt), while providing low latency and solid-state reliability.

STEC's Embedded SSD Comparison Guide

Product Family	USB	MACH2/4™	CFast™/Slim SATA
Interface	USB 2.0	Parallel ATA	Serial ATA
Form Factor	Module (10-pin) UFD (Series A)	CompactFlash Single-Chip Drive	SlimSATA (MO-297) mSATA (MO-300) CFast
Performance	30/20 MB/s	90/60 MB/s	SLC: 100+/80+ MB/s MLC: 90+/25+ MB/s
Typical Power	90mA	90-120mA	400mA+
Capacities	1-16GB	128MB-64GB	8-100GB
Error Handling	12-bit ECC	8-bit ECC	16-bit ECC
Wear Leveling	Total Drive	Total Drive	Total Drive

Long-Term Support Unmatched in the Industry

Whenever there is a change in form, fit or function in a final product, STEC issues a Product Change Notification (PCN). Advanced notification allows Original Equipment Manufacturers (OEMs) to smoothly migrate to new technology, while maintaining continuity-of-supply of legacy technology. This allows system designers to qualify and manage product and process transitions effectively.

Bill of Materials control and traceability

Every part is labeled with a Kanban number, which allows for retrieval of manufacturing quality records in addition to detailed BOM and component information.

Industrial temperature products

Industrial temperature must pass thorough functionality tests in dedicated chambers. Tests include program, read and verify cycles at three temperature stages: -40° C, +85° C and room temperature.

Product Change Notification (PCN)

NAND flash suppliers customarily migrate to new advanced process geometries about every 12-18 months. Typically, such changes require firmware modifications at the flash controller level. STEC issues PCNs to enable advance notice of major flash migrations.

In-field application support

STEC customers worldwide can rely on knowledgeable support from our network of highly qualified and experienced Field Application Engineers (FAEs). STEC FAEs are embedded industry veterans who are ready to help you meet your design challenges.

Vertically integrated operation

STEC provides reliable support only available from a vertically integrated organization. We are dedicated to meeting the needs of the embedded industry, from chip design, memory stacking and board design, through final assembly and test.





Engineered for Embedded Excellence

For more information on STEC products, solutions and technology, please visit www.stec-inc.com



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3001 Daimler Street, Santa Ana, CA 92705 +1.949.476.1180