

FlashFX Pro 3.0

Expert Software Management for Flash Memory

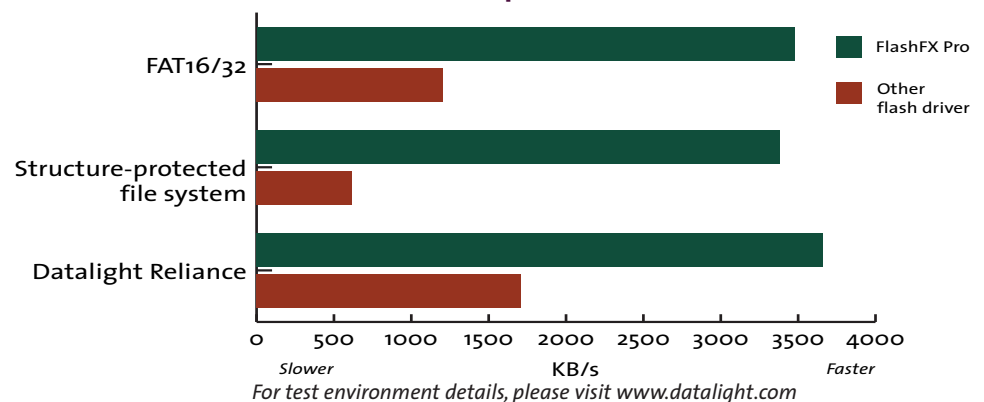
- Supports NAND and NOR flash from multiple vendors in one driver
- Wear-leveling and patented bad block management protect flash from premature failure
- Multi-media enabled for uninterrupted playback
- Multi-threaded architecture reduces latency between multiple flash access requests
- Includes run-time flash part and/or NAND controller selection
- Adheres to strictest NAND programming standards
- Offers superior performance regardless of file system
- Software ECCs provide 2-bit detection, 1-bit correction
- Works with any 32-bit operating system; Pre-ported versions available for:
 - Microsoft Windows CE
 - Wind River VxWorks
 - Mentor Graphics Nucleus PLUS
 - Express Logic ThreadX

Field-proven Performance. Time-saving Versatility.

FlashFX[®] Pro is an intelligent software manager for flash memory. With pre-written drivers that support hundreds of NAND and NOR parts, hybrid flash, and application processor flash controllers, FlashFX Pro offers developers unprecedented versatility and control. Its patented bad block management and small block emulation provide a robust solution for rapid integration and complete management of flash memory into any embedded system.

Feature	FlashFX Pro	Other Flash Drivers
Designed for reliability	✓	
Multiple flash types with one driver	✓	
Latency configuration options	✓	
Wear-leveling	✓	✓
Background compaction	✓	✓
NAND bad block management	✓	BSP vendor

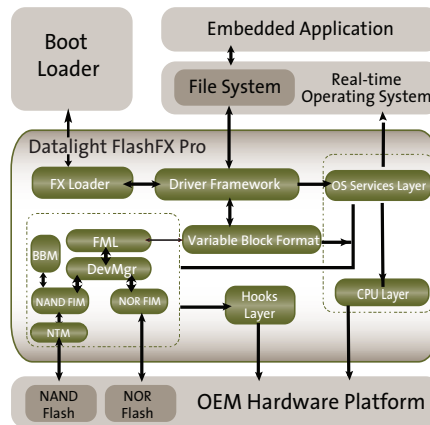
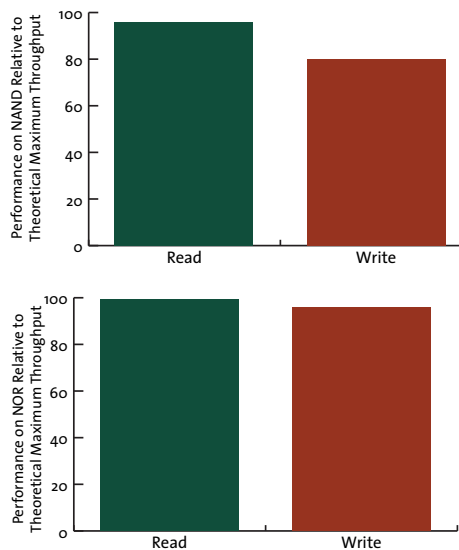
FlashFX Pro Offers Superior Performance



Last minute changes in parts availability can derail even the best planned project. Protect yourself with a versatile software solution that can be configured on-the-fly and is built to accommodate demands of high-volume manufacturing. You can count on our years of experience solving real-world customer challenges to keep you on the road to a successful product.

Target Configuration	32-bit OS, any CPU, NOR and/or NAND flash memory, 70 KB RAM (typical)
Development System	Windows 32 host; 4 MB of disk space for FlashFX Pro; sufficient RAM for development tools
In-System Memory Space	40 KB to 70 KB (tunable, based on disk partition configuration)
Media Volume Size	Each partition (or disk) can be scaled from 64 KB to 2 GB. Number of disks is configurable
Page Size	Native page support and small block emulation for 512 Byte, 1 KB and 2 KB

FlashFX Pro Offers High Performance



SUPPORTED HARDWARE*

CPUs

FlashFX Pro is CPU independent and will work with any 32-bit CPU for which an ANSI C compiler is available.

Reference Platforms

FlashFX Pro includes pre-configured projects for a number of popular reference platforms, allowing a developer to get up and running quickly.

NAND Controllers

FlashFX Pro supports a large variety of NAND controllers, which are often used to provide enhanced NAND functionality and simplify hardware integration.

NAND Flash Brands

AMD	Samsung
Hynix	Spansion
Micron	Toshiba
ST Microelectronics	

NOR Flash Brands

AMD	MXIC
Fujitsu	NEC
Intel	Samsung
Micron	Spansion
ST Microelectronics	

* For complete, current list please visit our website: www.datalight.com. Please note: registration is required.

Software Development Kit

ANSI C source, Developer's Guide, API reference, and validation utilities.

Licensing and Support

Flexible runtime license structure. Royalty-free options may be available.

Annual support subscriptions, with two service level options, provide e-mail and phone access to Datalight flash memory experts.

Free 30 Day Evaluation

Pre-configured binary versions are available for download from our website at no charge. Source code evaluations require Datalight Source Code Evaluation Agreement. Evaluation software allows up to 2 MB flash disk.

About Datalight

Datalight is the software expert for reliable data storage on devices. For nearly 25 years, Datalight has provided trusted solutions that have been deployed across all segments of the embedded industry—from cellphones to satellites to submarines. Our patented products have been proven to speed time to market for development platform and device manufacturers.