

Select Applications & Users

Home/Consumer

- Panasonic
- Scientific Atlanta
- Sharp
- Sony

Multimedia

- Delphi
- Pioneer
- NEC
- Nikon

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- Cisco
- IBM
- Lucent
- Raytheon

The Unicoi Advantage

- **One-stop-shop** for all of your embedded IP product development needs
- **20+ year track record** of delivering embedded software to the developer market

Proven

- Fusion TCP/IP Stack is the **most widely deployed** in the world



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Introducing Fusion Flash File System

The Fusion Flash File System is a small footprint, multi-threaded capable, highly reliable, embedded FAT12/ FAT16/FAT32 compatible flash file system. It is targeted towards embedded applications where Flash, Ram or Rom is used for the file storage media. The Fusion Flash File System is capable of managing multiple independent volumes. It delivers a layered driver architecture using a simple binding model allowing for OS-agnostic portability. The Fusion Flash File system has a rugged design that supports wear-leveling, post error correction and file compression. The flash file system is ANSI C compatible and provides a standard interface. The file system is fully dynamic (not a read only ROM style file system).

A full suite of supporting software modules is provided with the Fusion Flash File System.

Included Software:

- Tested C Library
- Driver Model
- I/O Manager
- PC Imager Tool
- Error Correction
- File Compression

Reliability

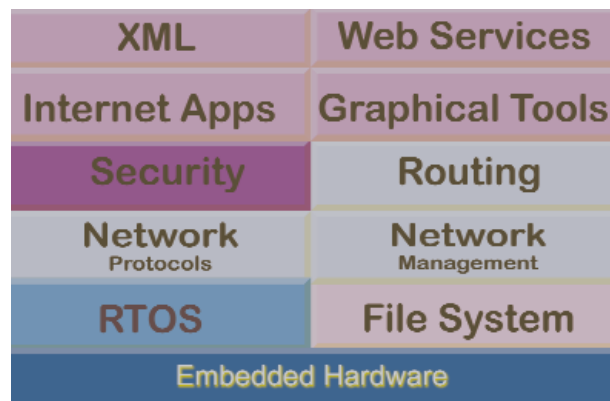
Unlike a hard-drive or RAM storage media, a flash device in an embedded product may become worn and induce errors in stored data over time. To effectively manage this and to extend the reliability of the end application, the Fusion Flash File System has incorporated several features that greatly extend end user product reliability. These enhancements include strategic caching of key data, wear leveling of erasable flash blocks, dynamic tracking of bad blocks and user callable error correction functions.

Fusion PC Imager

The Flash File System comes with the Fusion PC Imaging tool. This tool is designed to allow the user to easily embed an existing PC directory structure and files into their embedded product. The PC Imaging tool will convert a user directory structure that resides on a PC to a volume in a .h file that can be linked into the embedded application. This will then become a volume that the Fusion Flash File system can mount to. All of the files and directories on the PC are now available in the embedded product.

C Library

The Fusion Flash File System requires several standard C library functions. It is designed to use either the provided library or a user supplied C library. The provided C library supports the required Memory Management, Character, Functions, String Management, and Time, Management.



Unicoi Fusion Product Suite

Fusion Reference Designs

- VoIP Gateway/Terminal Adaptor
- IP Phone

Fusion Net

- TCP/IPv4/v6 Dual-Mode Stack
- DHCP
- DNS
- FTP
- NAT
- OSPFv2
- RTSP
- RTP
- SIP
- SDP
- SNMP
- SNTP
- Telnet
- POP3
- SMTP

Fusion RTOS

- Real-Time Operating System optimized for high-performance DSPs and media-centric microprocessors

Fusion File Systems

- Flash File System
- CIFS

Fusion Web

- HTTP
- XML
- Microbrowser
- GUI Toolkit

Fusion Secure

- IPsec
- IKEv1
- HTTPS

Fusion Algorithms & Codecs

- Please call for details

Flash File System Features

- Rugged Re-entrant Embedded Flash File System
FAT 12/FAT16/FAT 32
- Full Wear-Leveling
- Reduced Wear design
- Fully dynamic for all functions
- Multiple Volume Support
- Royalty Free
- Long File Names Support
- OS Agnostic
- Support for Run time media



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