

Cypherbridge® Systems uLoad™ Installer & Boot Loader



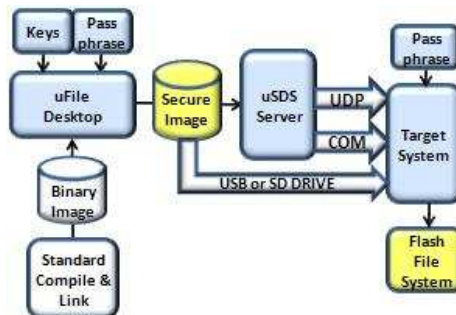
**Cypherbridge
Systems**

Overview

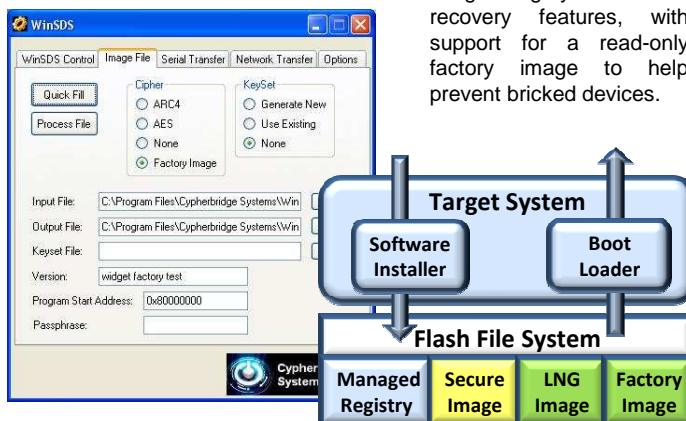
The uLoad SDK delivers an advanced software update installer and boot loader solution for embedded platforms. It manages multiple images to install, activate and rollback to last-known-good version.

Optional security features can be enabled to encrypt images and control software distributions and options.

Software updates can be installed from local USB or SD flash drives, serial port or LAN/WAN network. uLoad includes a command line toolkit or Windows GUI for image management, encryption, and firmware push to target device



The SDK Includes robust image integrity checks and recovery features, with support for a read-only factory image to help prevent bricked devices.



uLoad-DFE

Device Firmware Edition supports factory and clear text images with zero encryption or passphrase. It is targeted for embedded systems to manage multiple images and rollback features in a robust solution. Images are managed the same way as the uLoad Secure Edition, only without encryption.

uLoad-SE

Secure Edition add a security model to control software updates using encrypted images with a passphrase, and multi-level keys. Images can be decrypted during the installation, or during the boot loading stage, to defend against hacking and reverse engineering, and control optional software feature distribution.

The encrypted software update image can securely distributed by email and installed from USB flash drive. When the field engineer or end user starts a software upgrade, the encryption passphrase is interactively or programmatically entered to decrypt the image. This authenticates the image to insure it is genuine, and can be used to distribute optional features with different software SKUs and passphrases.

Features

- ✓ Increase product Integrity, prevent hacking, control optional feature distribution
- ✓ Install from removable flash drive, serial port or network
- ✓ LNG and factory image rollback
- ✓ Image file hash integrity and authentication check
- ✓ Managed registry retains image history
- ✓ Powerfail recovery and automatic registry rebuild
- ✓ Use standard toolchain to compile and link software image. Supports IAR, Keil, GCC and all other toolchains
- ✓ Process software image with toolkit supported on command line, Windows GUI, and MacOSX
- ✓ Manage application images and FPGA bitstream files

Options

- ✓ uLoad-SE file encryption and passphrase protection
- ✓ Remote firmware push over LAN/WAN network
- ✓ Windows DLL for integration with DLM system

For Pricing and Availability

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