



Large Capacity Serial Flash SFK, SFT, SFX, SFK5V Series with SPI Interface

Datakey Electronics offers large capacity serial flash memory Keys and Tokens supporting the Serial Peripheral Interface (SPI) bus. SPI is a synchronous serial data link that is standard across many industry microprocessors and peripheral chips. The primary applications for SFK/SFT/SFX devices are **in-field firmware updates**, **data logging** and high-capacity **data transfer**. These devices have been successfully integrated into many applications across medical, industrial, commercial, and military environments.

These Devices are currently available in capacities ranging from 1Mbit to 64Mbits and complement Datakey Electronics' line of Microwire (1Kbit to 16Kbit) and SPI (2Kbit - 256Kbit) EEPROM devices. The SFK/SFT/SFX Series feature Datakey Electronics' industry-leading solid over-molded construction, rugged wear-resistant exterior and long-lasting contacts. Unlike cards and other data carriers that can easily fail, the Key/Token's body protects the embedded memory chip from physical damage and harsh environmental influences. Our products can be sterilized, dropped in the mud, washed, exposed to electromagnetic fields or chemicals, *run over with a truck* – and they will still work!



The Keys/Tokens interface to Datakey Electronics' proven mating Receptacles and the KeyLink™ III/SlimLink™ III series of Reader/Writers providing a convenient way to program or administer the Keys/Tokens. The Keys/Tokens feature advanced write protection mechanisms and can be accessed at up to 25MHz clock rates.

Datakey Electronics' line of SPI-Flash Keys and Tokens have been commonly utilized as a convenient and extremely cost-effective way of doing in-field firmware updates. Instead of changing out memory chips or sending technicians into the field, OEMs can now simply program updated firmware on a Key or Token and send it to the field location of the host device needing to be updated. Once received, the Key or Token is simply inserted into the mating Receptacle and the firmware is updated. By utilizing the same Receptacle, OEMs can implement lower capacity EEPROM Keys/Tokens for Access Control or data transfer in the host equipment, while providing the ability to re-flash on board firmware with these large capacity Keys/Tokens.

Do you have an application with special requirements?

Call **1-800-328-8828** today for a free, no obligation design consultation between your design team and ours. We can discuss your particular design application and consider the feasibility of using our existing design concepts, or starting from scratch. For over 30 years, Datakey Electronics has designed products providing custom shapes, memory sizes, and duty cycle ranges for commercial, government, military, and industrial applications.

www.datakey.com ■ 800-328-8828 ■ 952-746-4066

