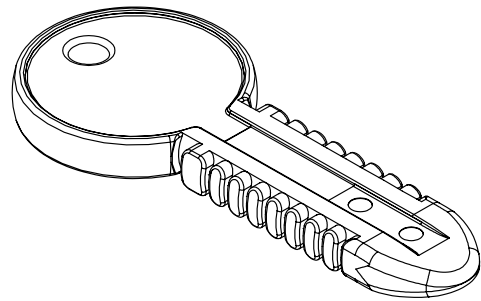
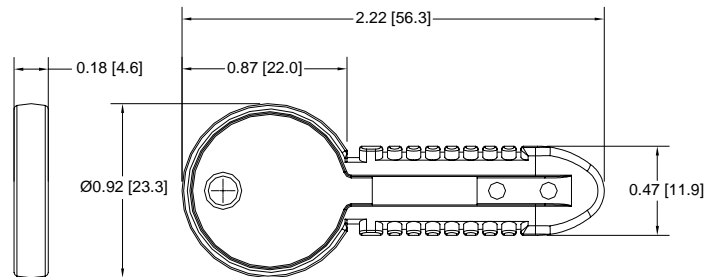


Datakey Electronics large memory capacity serial flash memory Keys feature a Serial Peripheral Interface (SPI)<sup>1</sup> which is a synchronous serial data link that is standard across many microprocessors and other peripheral chips. It provides a high bandwidth network connection among CPUs and other devices supporting the SPI-compatible bus. The primary applications are data logging, firmware updates, and data transfer. The memory can be written or programmed 1 to 256 bytes at a time, using the Page Write or Page Program instructions. Refer to the SPI Flash Interface Specification for specific sector and page information. The SFK Series features Datakey Electronics' industry-leading solid molded construction, rugged wear-resistant exterior and long-lasting contacts.

Mechanical	
Contact Life	15,000 Insertions/Removal Cycles Min.
Contact Arrangement	Fully Redundant (Top:Bottom)
Key Head Shear Limit	15 Pounds
Key Twist Torque Limit	15 Inch-pounds
Electrical <sup>1</sup>	
Power, Active	25 milliwatts typical
Power, Standby	550 microwatts typical
Voltage	2.7 to 3.6V
ESD Protection	10kV (per Std. 064-1028)
Environmental	
Storage Temperature	-40° C to + 100° C
Operating Temperature	-40° C to + 85° C
Relative Humidity	5% to 95% (non-condensing)
Memory <sup>1</sup>	
Key:	Capacity:
SFK1Mb	1,048,576 bits (131,072 bytes)
SFK2Mb	2,097,152 bits (262,144 bytes)
SFK4Mb	4,194,304 bits (524,288 bytes)
SFK8Mb	8,388,608 bits (1,048,576 bytes)
SFK32Mb	33,554,432 bits (4,194,304 bytes)
Read Cycles	Unlimited
Write/Erase Cycles	100,000 Cycles Minimum
Data Life (Storage)	20 Year Data Retention
Mating Component(s)	
Panel-Mount Receptacle	KC4210
PCB Mount Receptacle	KC4210PCB
Reader/Writer	KeyLink™ III (recommended), KeyLink™ II
Ordering Information <sup>2</sup>	
SFK1Mb	611-0083-00XA
SFK2Mb	611-0089-00XA
SFK4Mb	611-0104-00XA
SFK8Mb	611-0132-00XA
SFK32Mb	611-0164-00XA



Refer to Keyceptacle® data sheets for pin-out information. Other Key head designs and customization are also available. Contact factory.



Drawing dimensions are in inches and millimeters [mm]. Dimensions are nominal and subject to manufacturer's tolerances.

#### NOTES:

- 1: Complete SPI Interface Specification available at [http://www.datakeyelectronics.com/technical\\_inter\\_specs.html](http://www.datakeyelectronics.com/technical_inter_specs.html)
- 2: "X" indicates optional color number. "A" suffix on part number indicates RoHS compliance.

