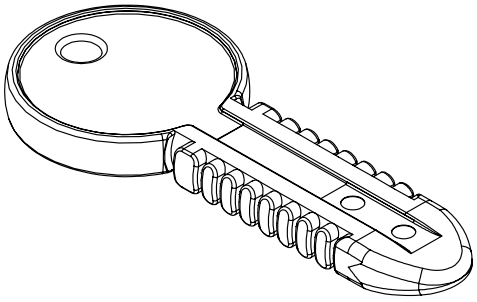
www.datakey.com ■ 800-328-8828

LCK Series

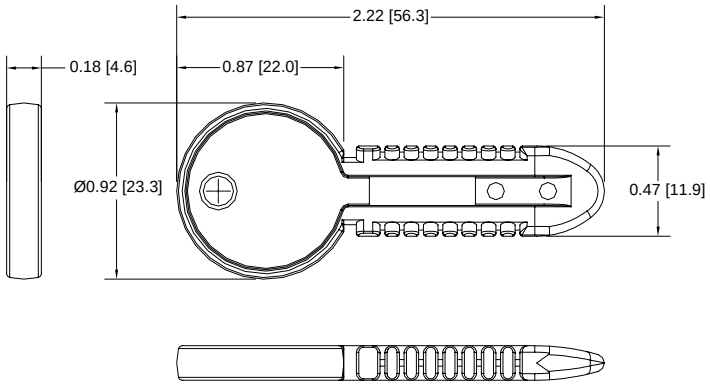
Serial Memory Keys

Datakey Electronics' LCK Keys are economical 1Kbit, 4Kbit, and 16Kbit data carriers that provide convenient data storage and transfer for high-volume, end-user applications that require a low-density, read / write portable memory. Each LCK Key contains a non-volatile, serial Microwire[1] EEPROM that can be read, erased, and written to via a Keyceptacle® which is available in both panel-mount and board-mount forms. The LCK can also be accessed and programmed through the KeyLink™ Reader / Writers that easily interface to PCs and other host hardware via a standard RS-232 or USB port. A molded, synthetic body protects each Key's embedded memory from harsh environmental influences, so it retains data even when exposed to dirt, moisture, chemicals, X-rays, and up to 10kV of electrostatic discharge.

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[1]	
Power, Active	25 milliwatts typical at 5V
Power, Standby	250 microwatts typical at 5V
Voltage[2, 3]	2.7 to 5.5V
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[1]	
Key:	Capacity:
LCK1000	1Kbits (1,024 bits) 64 x 16
LCK4000	4Kbits (4,096 bits) 256 x 16
LCK16000	16Kbits (16,384 bits) 1024 x 16
Read Cycles	Unlimited
Write/Erase Cycles	1,000,000 Cycles Minimum
Data Life (Storage)	10 Years Minimum
Mating Component(s)	
Panel-Mount Receptacle	KC4210
PCB Mount Receptacle	KC4210PCB
Reader/Writer	KeyLink™ III (recommended), KeyLink™ II
Ordering Information[4]	
LCK1000	611-0049-00**X**A
LCK4000	611-0069-00**X**A
LCK16000	611-0070-00**X**A



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 Microwire Interface Specification available at *http://www.datakeyelectronics.com/technical_inter_specs.html*

2: The Bulk Erase command is not supported at < 4.6V.

3: **Design Recommendation:** It is recommended that all new Key/Token implementations be designed to operate with power supplies in the range of 2.7 to 3.6 volts. Although there is no immediate or certain future difficulties in the procurement of memory devices that operate with V_{cc} in the 4.5 to 5.5 volt range, it is possible the future availability of such memories may be impacted as semiconductor manufacturers continue to shrink their die geometries. Please contact the factory if you have any questions pertaining to this with your current or legacy design.

4: "**X**" indicates optional color number. "A" suffix on part number indicates RoHS compliance.

RoHS Compliant