Datakey® Electronics

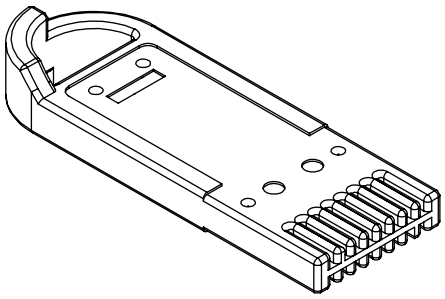
www.datakey.com ■ 800-328-8828

LCX Series

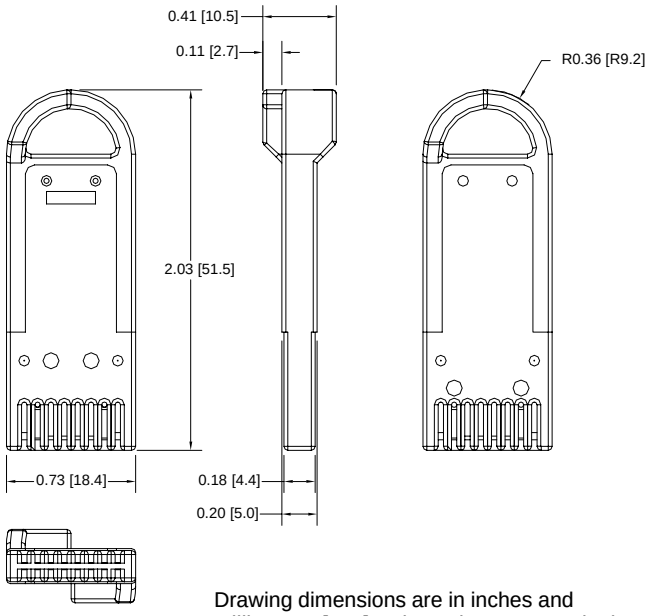
Serial Memory Extended Tokens

The Extended SlimLine™ LCX Token features a non-volatile, serial Microwire[1] EEPROM memory in 1Kbit, 4Kbit or 16Kbit. A thin profile and space-saving interface connection make the LCX well suited for use in compact systems. The LCX Token is constructed of tough, synthetic materials that protect the memory from harsh environmental influences including dirt, moisture, chemicals, X-rays, and electrostatic discharge. Data stored in the device can be read, written to, and erased via a simple interface to your host hardware, or accessed through convenient SlimLink™ Reader/Writers.

Mechanical	
Contact Life	10,000 Insertions/Removal Cycles Min.
Contact Arrangement	Fully Redundant (Front:Back)
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	15kV (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]	
Token:	Capacity:
LCX1000	1Kbits (1,024 bits) 64 x 16
LCX4000	4Kbits (4,096 bits) 256 x 16
LCX16000	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	SR4210
PCB Mount Receptacle	SR4000 Family of Receptacles
Reader/Writer	SlimLink™ III (recommended), SlimLink™ II
Ordering Information[4]	
LCX1000	611-0148-00**X**A
LCX4000	611-0079-00**X**A
LCX16000	611-0149-00**X**A



For pin-out information, refer to the individual data sheets for the SR4000 Family of Receptacles.



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.

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RoHS Compliant