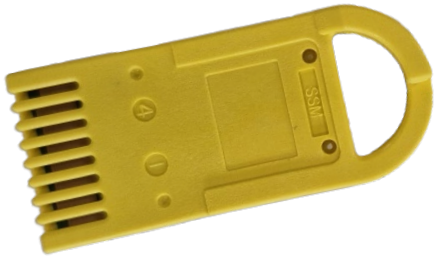
SSM256Kb

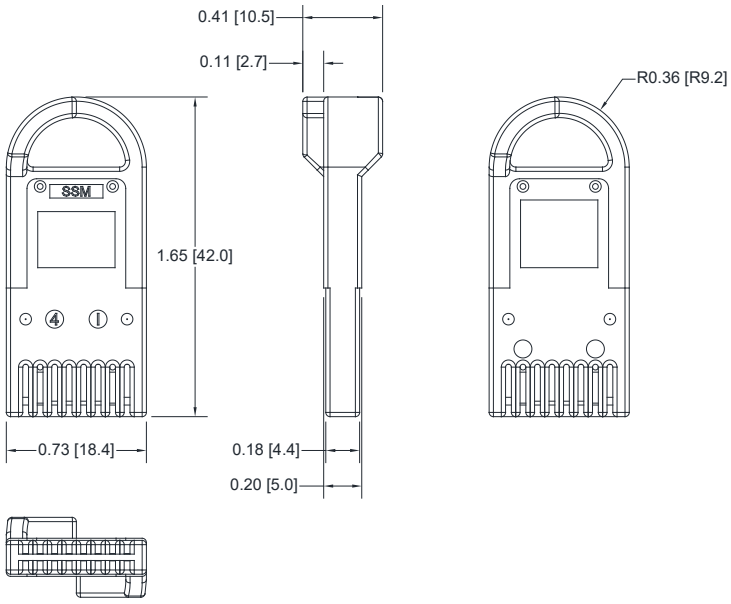
Mid-Length Serial Memory Tokens

Datakey
The power of memory. Secured.

SSM256Kb mid-length serial memory tokens contain 256 Kbits of non-volatile, serial SPI EEPROM memory[1]. The mid-length SlimLine token form factor provides a third physical size option that falls between the standard and extended-length SlimLine token form factors. Each token is molded using a rugged composite, which protects the embedded memory from harsh environmental influences, so it retains data even when exposed to dirt, moisture, chemicals and electrostatic discharge. The token features a redundant contact system ensuring maximum reliability and ease-of-use, as the token can be inserted into the receptacle with either side up.



For pinout information, refer to the individual datasheets for the SR4000 family of receptacles.



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

MECHANICAL	
Color*	Black (-000A), Red (-002A), Yellow (-004A) Green (-005A), Blue (-006A), Gray (-008A)
Contact Life	10,000 Insertion/Removal Cycles Minimum
Contact Arrangement	Fully Redundant (Front : Back)
ELECTRICAL[1]	
Power, Active	25 mW, Typical at 5 V
Power, Standby	200 µW, Typical at 5 V
Voltage[3]	2.7 to 5.5 V
ESD Protection	15 kV (air discharge) Per IEC 61000-4-2[4]
ENVIRONMENTAL	
Storage Temperature	-40°C to +100°C
Operating Temperature	-40°C to +85°C
Relative Humidity	5% - 95% (non-condensing)
MEMORY[1]	
Capacity	256 Kbits (262,144 bits) 32,768 x 8
Read Cycles	Unlimited
Write/Erase Cycles	1,000,000 Cycles Minimum
Data Life (Storage)	10 Years Minimum
EXTERNAL INTERFACE	
Interface	SPI – See SPI EEPROM Interface Specification[1]
MATING COMPONENT(S)	
PCB-mount Receptacles	SR4210PCB, SR4210SM, SR4220PCB, SR4220SM, SR4220VRT, SR4230PCB, SR4230SM
Panel-mount Receptacles	SR4210 / SR4310 / SR4410 Series
Programmers	SlimLink III, Slimtroller III, Unitroller III SlimLink II (Not Recommended for New Designs)
ORDERING INFORMATION[2]	
SSM256Kb	611-0250-00xA

1: SPI EEPROM Interface Specification available at datakey.com
2: "x" indicates optional color number. "A" suffix on part number indicates RoHS compliance. See CE declaration below for details.
3: 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 are no immediate difficulties in procuring memory devices that operate in the 4.5 to 5.5 volt range, future availability may be impacted as semiconductor manufacturers shrink their die geometries.
4: Pending ESD testing.

*Contact ATEK for additional color options.

NOTES:
Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, and as amended by Directive 2015/863/EU, on the restriction of the use of certain hazardous substances in electrical and electronic

CE

UK CA

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