

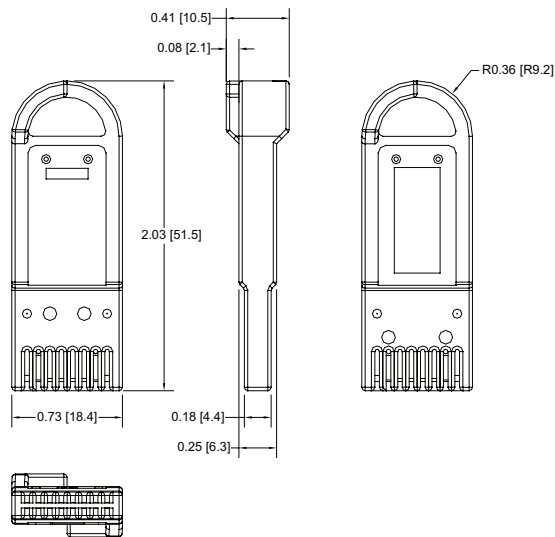
# DFX Series

## Commercial RUGGEDrive™ Token with SD Card Functionality

Datakey DFX memory tokens deliver SD card functionality in a more robust and secure form factor than consumer SD cards. Electrically, this token provides a standard SD interface (per the SD specification) – including support of SPI communications for embedded applications. DFX memory tokens utilize solid over-molded construction using ultra-rugged composites that protect the embedded memory from harsh environmental influences, such as dirt, moisture, chemicals and electrostatic discharge. The tokens can also be OEM-branded with a company logo, used in place of the Datakey logo.



For pin-out information, refer to the individual data sheets for the SR42xx (PCB-mount) and SR43xx or SR44xx (panel-mount) receptacles.



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



The power of memory. Secured.

MECHANICAL	
Contact Life	10,000 Insertion/Removal Cycles Min.
Contact Arrangement	Fully Redundant (Front:Back)
ELECTRICAL	
Power, Active	185 Milliwatts Typical at 3.3 V
Power, Standby	400 Microwatts Typical at 3.3 V
Voltage	3.3 V Operation and Programming
ESD Protection	15 kV (air), 10 kV (contact) Per IEC 61000-4-2
ENVIRONMENTAL	
Storage Temperature	-40°C to + 85°C
Operating Temperature	-25°C to + 85°C
Relative Humidity	5% to 95% (non-condensing)
Waterproof	Yes
MEMORY	
Capacity Options:	4 GB, 8 GB, 16 GB, 32 GB, 64 GB
Memory Type	MLC NAND Flash
EXTERNAL INTERFACE	
Interface	SD, SPI (per Secure Digital Specification)
Transfer Rate (SD)	Speed Class 10, Minimum
Clock Rate	Refer to SD Specification
MATING COMPONENT(S)	
PCB-mount Receptacles	SR4210/SR4220/SR4230 – PCB/SMT
Panel-mount Receptacles	SR4210/SR4310/SR4410 Series (including IP-rated versions)
PC Adapter	DFX PC Adapter (USB Type A) P/N 607-0081-000A
ORDERING INFORMATION <sup>1</sup>	
DFX4GB	611-0209-00xA
DFX8GB	611-0217-00xA
DFX16GB	611-0218-00xA
DFX32GB	611-0219-00xA
DFX64GB	611-0222-00xA
DFX Development Kit, 4 GB	702-0084-000A
DFX Development Kit, 8 GB	702-0084-001A
DFX Development Kit, 16 GB	702-0084-002A
DFX Development Kit, 32 GB	702-0084-003A
DFX Development Kit, 64 GB	702-0084-004A

1: "x" indicates optional color number.

"A" suffix on part number indicates RoHS compliance.

**NOTES:**

- EN 55022 Class A Statement: Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
- DFX token was tested for CE conformity while connected with a DFX PC Adapter.



221-0177-000 Rev. H 9/16

View our full product line at [www.datakey.com](http://www.datakey.com)

ATEK Access Technologies  
10025 Valley View Road, Ste. 190  
Eden Prairie, MN 55344 U.S.A.

PH: 1.800.523.6996  
FAX: 1.800.589.3705  
+1.218.829.9797

[www.atekaccess.com](http://www.atekaccess.com)



Access the power of technology.