

Datakey – Product Change Notification / End of Life Notification

PCN Number: 20220207
Notice Date: 7 February 2022
Notification Subject: End of Life Notification (EOL)

Summary Description:

This product change notification (PCN) documents changes being made to the Industrial DFX family of RUGGEDrive memory tokens. Since launching in late 2010, Datakey RUGGEDrive memory tokens have leveraged MLC (multi-level cell) NAND flash memory. In the past two years, our industry has begun to transition away from MLC NAND flash to TLC (triple-level cell) NAND flash, especially for capacities of 16 GB and greater.

As a result, ATEK is currently qualifying new SD memory with TLC NAND flash. Other changes are also being incorporated into the DFX-I tokens. See below for details. Because of the changes being made, the following DFX-I RUGGEDrive memory tokens are going EOL and are being replaced with updated versions.

Affected Products:

DFX4GB-I RUGGEDrive Memory Tokens
 DFX8GB-I RUGGEDrive Memory Tokens
 DFX16GB-I RUGGEDrive Memory Tokens
 DFX64GB-I RUGGEDrive Memory Tokens
 Customized DFX-I RUGGEDrive Memory Tokens

Part Numbers:

611-0223-01xA*
 611-0224-00xA*
 611-0225-00xA*
 611-0227-00xA*
 Varies

Suggested Replacements:

EOL DFX-I Models		Replacement DFX-I Models	
Old Part Number	Description	New Part Number	Description
611-0223-01xA*	DFX4GB-I Memory Token	611-0223-02xA	DFX4GB-I Memory Token
611-0224-00xA*	DFX8GB-I Memory Token	None	
611-0225-00xA*	DFX16GB-I Memory Token	611-0225-01xA	DFX16GB-I Memory Token
		611-0226-01xA	DFX32GB-I Memory Token
611-0227-00xA*	DFX64GB-I Memory Token	611-0227-01xA	DFX64GB-I Memory Token
Varies	Custom DFX-I Tokens	Varies	Custom DFX-I Tokens

*The "x" in the part number is a variable and changes based on token color (0=black, 2=red, 4=yellow, 5=green, 6=blue, 8=gray). All token colors are EOL.

Notice Details:

As stated above, current DFX-I RUGGEDrive memory tokens are going EOL and are being replaced by updated DFX-I RUGGEDrive models. There are some differences between the current DFX-I models and the new DFX-I models and some aspects that remain unchanged. First, here are the aspects of the new DFX-I memory tokens that remain the same as the existing DFX-I tokens:



The power of memory. Secured.

Characteristics Shared Between EOL DFX-I Models and New DFX-I Models

Like the existing DFX-I memory tokens, the new DFX-I tokens will share the same RUGGEDrive memory token form factor that features the redundant SlimLine™ contact system. The new tokens will use the same pinout and Secure Digital (SD) interface. Both provide SD card functionality and both support SPI mode operation. Both use the same SlimLine receptacles and DFX PC adapters. Both the old and the new models have an operational temperature range of -40°C to +85°C.

Characteristics New/Changed with the New DFX-I Models

New Datakey Logo

Existing DFX-I tokens use the “old” Datakey Electronics logo that was used with the RUGGEDrive tokens since the family was launched in late 2010.

The new DFX-I tokens will use the updated Datakey logo that looks like this:



NAND Flash Memory

All current DFX-I memory tokens utilize SD memory with MLC-based NAND flash memory. The MLC NAND flash is rated for a minimum of 3,000 program/erase cycles per cell. The new DFX16GB-I, DFX32GB-I and DFX64GB-I models will all utilize TLC-based NAND flash. The new DFX4GB-I tokens, however, will continue to use MLC NAND flash. In fact, these tokens will continue to use the same qualified SD memory as is currently used in the current DFX4GB-I tokens. Another exception, of sorts, is the DFX8GB-I. No replacement DFX8GB-I token is being offered.

Both the old MLC and the new TLC NAND are rated for 3,000 program/erase cycles.

Fixed BOM Optional

All previous Industrial DFX models came with a fixed bill of materials. This means that no changes could be made to the BOM without first issuing an EOL notification. Typically, a last time buy (LTB) would be offered and then a new replacement part number would be issued (and it would have its own fixed BOM). While having a fixed BOM can be desirable, it can also be inconvenient, especially if the changes are minor. So, instead of taking a one-size-fits-all approach, we will be removing the fixed-BOM requirement for DFX-I tokens. Going forward, having a fixed BOM will be available as an option for customers who desire to have this extra level of control. For customers wanting a fixed BOM, they should contact the Datakey Customer Care Team (CCT) for a quote. Customers who specify they would like a fixed BOM will be assigned a special part number. For customers who order the standard DFX-I memory tokens (no fixed BOM), any changes will be documented using a product change notification, but it will not involve a new part number being issued, unless there is a change in form, fit or function.

ATEK will be making samples of the new Industrial DFX tokens available to existing customers upon product release, expected in early Q2-2022.



Last Time Buy Information

Last time buy orders for DFX4GB-I tokens will be accepted until April 30, 2022 with final delivery June 30, 2022. For the other DFX-I models, contact the Datakey Customer Care Team to learn what quantities are available based on available stock on hand.

Custom DFX-I Token Customers

If you currently purchase a customized DFX-I memory token (with a part number starting with 699), please contact the Datakey Customer Care team to learn about what existing stock may be available for purchase and to discuss whether the creation of an equivalent DFX-I memory token is applicable/desired.

If you have any questions regarding this PCN, please contact the Datakey Customer Care Team.

Contact Information:

Customer Care Team

+1 (800) 523-6996

+1 (218) 829-9797

CCT@datakey.com

Full listing of part numbers impacted by this PCN:

611-0223-010A
611-0223-012A
611-0223-014A
611-0223-015A
611-0223-016A
611-0223-018A
699-0170-006A
699-0170-016A
611-0224-000A
611-0224-002A
611-0224-004A
611-0224-005A
611-0224-006A
611-0224-008A
611-0225-000A
611-0225-002A
611-0225-004A
611-0225-005A
611-0225-006A
611-0225-008A
611-0227-000A
611-0227-002A
611-0227-004A
611-0227-005A
611-0227-006A
611-0227-008A