Engineering Information Notice (EIN)

ECN Number:	EIN-XD7P-006
Title:	Firmware 1PETx103 Maintenance Release
Customer:	Generic Customer
Date:	Feb. 17, 2025
Document Number:	SSDAE-A-71210
Product Affected:	XD7P E1.S 9.5mm/15mm Generic

Model No.		Hardware Revision		Firmware Revision	
Non-SED	**SED**	**Old**	**New**	**Old**	**New**
KXDZ1RJJ1T92	KXDZDRJJ1T92	1.0	1.0	1PET6102	1PET6103
KXDZ1RJJ3T84	KXDZDRJJ3T84			1PET7102	1PET7103
KXDZ1RJJ7T68	KXDZDRJJ7T68				
KXDZ1RJ91T92	KXDZDRJ91T92				
KXDZ1RJ93T84	KXDZDRJ93T84				
KXDZ1RJ97T68	KXDZDRJ97T68				

PRIORITY		
☐	URGENT
☐	IMMEDIATE
☒	ROUTINE
CATEGORY		
☐	ELECTRICAL
☐	MECHANICAL
☒	OTHER : Firmware
IMPLEMENTATION		
☒	FACTORY
☒	CUSTOMER SITE
☐	AS REQUIRED
☐	RETROFIT KIT REQUIRED
☐	REPAIRED

AFFECTED AREA		
☐	HARDWARE
☒	SOFTWARE/FIRMWARE
☐	DOCUMENTATION
☐	TEST PROCEDURES
☐	SAFETY REQUIREMENTS
☐	MANUFACTURING
☐	OTHER:
REWORK INSTRUCTIONS		
☐	INCLUDED OR ATTACHED
☒	NOT ATTACHED
CUT IN PLAN		
☒	ATTACHED
☐	NOT ATTACHED

CHANGE DESCRIPTION:

✓ Firmware revisions are changed from 1PET6102 to 1PET6103 in Non-SED models, and 1PET7102 to 1PET7103 in SED models.

✓ Drive label changes are described in Appendix A.

✓ For more details of the Firmware changes and errata, please refer to the Firmware Revision 1PETx103 Release Notes.

Firmware Revision	Description/Changes
1PET6103 **1PET7103**	**Maintenance release due to bugs fixed in the previous Firmware revisions:** ● Total NVM Capacity reporting incorrect data for byte offset 88:85 in OCP Specification 2.0, Section 10.2 NVMe Basic Management Command (Appendix A) Data Format - Byte Offset (88:85). ● Host IO may hang during host read/write operation with VDM (Vendor Defined Message) communication on the PCIe bus. When this condition happens, the drive hangs and cannot start the PLP routine causing user data to be lost when the drive loses power. Modify the drive FW to re-allocate the DRAM range for VDM to eliminate the arbiter from being locked when three different DRAM write access (one is for VDM) come in simultaneously.

REASON FOR CHANGE:

✓ Maintenance release for XD7P E1.S 9.5mm/15mm Generic drives.

DATE OF APPLICATION

✓ The maintenance Firmware 1PET6103 and 1PET7103 will be released to all XD7P E1.S Generic customers in Feb, 2025.

✓ Cut-in Plan of the maintenance Firmware 1PET6103 and 1PET7103 will be applied to XD7P E1.S Generic drives from Feb., 2025. And, the mass production drives with the maintenance Firmware will start shipment at the beginning of May., 2025.

✓ Customers who are qualifying XD7P E1.S Generic drives on the previous Firmware revisions, should upgrade the Firmware to 1PET6103 or 1PET7103 to continue the qualification.

KIOXIA Corporation SSD Product Marketing & Technical Support, Gr. 2 SSD Application Engineering Department, SSD Division	
Checked by: Takao Shirai Senior Expert, SSD Application Engineering Dept.	*Takao Shirai*
Approved by: Susumu Rikukawa Group Manager, SSD Application Engineering Dept.	*S. R.*

APPENDIX A

Drive label:

Firmware notation on current label with FW 1PET6102 will be changed to FW 1PET6103.

(Non-SED model E1.S 9.5mm)

KXDZ1RJJ1T92   XD7P   CAN ICES-3(B) / NMB-3(B)   STORAGE DEVICE   1920GB
WWYYMYDLLSSSFXXX
YYWWKKZ
DDMMMYYYY
HW Rev. 1.x
FW 1PET6103
+12V ===
RoHS_COMPATIBLE,_[[Pb]]>MCV
KIOXIA Corporation
E319571
KIOXIA Europe GmbH, Hansaallee 181, 40549 Düsseldorf, Germany
KIOXIA Europe GmbH, Branch Office UK, 31 Chertsey Street, Guildford, GU1 4HD, United Kingdom
R-R-TMZ-KXDZDRJK7T68
SOLID STATE DRIVE
PCI EXPRESS
MADE IN THAILAND

(Non-SED model E1.S 15mm)

KXDZ1RJ91T92   XD7P   CAN ICES-3(B) / NMB-3(B)   STORAGE DEVICE   1920GB
WWYYMYDLLSSSFXXX
YYWWKGZ
DDMMMYYYY
HW Rev. 1.x
FW 1PET6103
+12V ===
RoHS_COMPATIBLE,_[[Pb]]>MCV
KIOXIA Corporation
E319571
KIOXIA Europe GmbH, Hansaallee 181, 40549 Düsseldorf, Germany
KIOXIA Europe GmbH, Branch Office UK, 31 Chertsey Street, Guildford, GU1 4HD, United Kingdom
R-R-TMZ-KXDZDRJK7T68
SOLID STATE DRIVE
PCI EXPRESS
MADE IN TAIWAN

Firmware notation on current label with FW 1PET7102 will be changed to FW 1PET7103.

(SED model E1.S 9.5mm)

KXDZDRJJ1T92   XD7P   CAN ICES-3(B) / NMB-3(B)   STORAGE DEVICE   1920GB
PSID: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
WWYYMYDLLSSSFXXX
YYWWKKZ
DDMMMYYYY
HW Rev. 1.x
FW 1PET7103
+12V ===
RoHS_COMPATIBLE,_[[Pb]]>MCV
KIOXIA Corporation
E319571
KIOXIA Europe GmbH, Hansaallee 181, 40549 Düsseldorf, Germany
KIOXIA Europe GmbH, Branch Office UK, 31 Chertsey Street, Guildford, GU1 4HD, United Kingdom
R-R-TMZ-KXDZDRJK7T68
SOLID STATE DRIVE
PCI EXPRESS
MADE IN THAILAND

(SED model E1.S 15mm)

KXDZDRJ91T92   XD7P   CAN ICES-3(B) / NMB-3(B)   STORAGE DEVICE   1920GB
PSID: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
WWYYMYDLLSSSFXXX
YYWWKKZ
DDMMMYYYY
HW Rev. 1.x
FW 1PET7103
+12V ===
RoHS_COMPATIBLE,_[[Pb]]>MCV
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