Statement of Volatility – OptiPlex All-in-One 7420

CAUTION: A CAUTION indicates either potential damage to hardware or erasure of data and tells you how to avoid the problem.

The OptiPlex All-in-One 7420 contains both volatile and non-volatile components. Volatile components erase their data immediately after power is removed from the component. Non-volatile components continue to retain their data even after power is removed from the component. The following non-volatile components are present on the OptiPlex All-in-One 7420 system board.

Table 1. List of non-volatile components on system board

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (action necessary to erase data)
SSD drive(s)	SSD1	Non-Volatile magnetic media, various sizes in GB. SSD (solid state flash drive).	No	Low level format
System BIOS/EC Firmware	U2504 (32 MB), U2501 (16 MB)	Non-Volatile memory, Video BIOS for basic boot operation, PSA (on board diags), PXE diags.	No	N/A
LVDS Converter Firmware	U5502	Non-Volatile memory, 64 Kbit for LVDS Converter.	No	N/A
LOM Serial Flash Memory	U9702	Non-Volatile memory, WOL settings, PXE settings.	No	N/A
System Memory – DDR4 memory	DM1, DM2	Volatile memory in OFF state (see state definitions later in text).	Yes	Power off system
RTC CMOS	RTC1	Non-Volatile memory 256 bytes Stores CMOS information.	No	Remove the coin cell battery on board
Video memory – frame buffer	N/A	Volatile memory in off state.	No	Power off system
Intel ME Firmware	Combine on BIOS ROM	Non-volatile memory, Intel ME firmware for system configuration, security, and protection.	No	N/A
TPM Controller (NUVOTON NPCT760JABYX)	U9101	Non-Volatile memory, 32K bytes ROM.	No	N/A
ISH	Combine on BIOS ROM		No	N/A

CAUTION: All other components on the system board erase data if power is removed from the system. Primary power loss (unplugging the power cord and removing the battery) destroys all user data on the memory (DDR4, 2667 MHz). Secondary power loss (removing the on-board coin-cell battery) destroys system data on the system configuration and time-of-day information.

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