Statement of Volatility – Dell OptiPlex 7090 Ultra

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

The Dell OptiPlex 7090 Ultra contains both volatile and non-volatile components. Volatile components lose 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 7090 Ultra 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 prevent loss of data)
Embedded Flash in embedded controller: DEC1515	U2401	64K byte of embedded boot ROM for embedded controller boot code which loads an executable code image into SRAM.	NO	NA
System BIOS ME Firmware	U2502	Non-Volatile memory, 256Mbits (32MBytes), System BIOS and Video BIOS for basic boot operation, PSA (on board biags), Intel ME firmware for system configure, security and protection and ISH firmware.1MB for EC code	NO	NA
System Memory – DDR4 memory	DIMM1、DIMM2	Volatile memory in OFF state (see state definitions later in text) Four packages memories must be populated. System memory size will depend on the size of each piece memory and must be between 4GB and 32 GB.	Yes	Power off system
USB-Type C PD	U7204	Non-Volatile memory 256 Kbit for USB type-C PD F/W	NO	NA
TBT 4	U7103	Non-Volatile memory 1MB for TBT burnside bridge F/W	NO	NA
RTC CMOS	RTC1	Non-Volatile memory 256 bytes Stores CMOS information	NO	Removing the Coin Cell battery cable on board.
Video memory – frame buffer	NA	Volatile memory in off state. UMA uses main system memory size allocated out of main memory.	NO	Power off system
LOM Serial Flash Memory	U9701	Non-Volatile memory, EFUSE mode WOL settings, PXE settings.	No	N/A
SSD driver(s)	SSD1	Non-Volatile SSD (solid state flash device) media, various sizes in GB.	Yes	Low level format

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
HDD driver(s)	HDD1	Non-Volatile HDD (hard disk drive) media, various sizes in GB.	Yes	Low level format
TPM Controller(ST) ST33HTPH2X32 AHD8	U9101	24K bytes non-volatile memory located in ST TPM.	NO	NA

△ **CAUTION: All other components on the system board lose 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.**