

Statement of Volatility – OptiPlex Tower 7020

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

The OptiPlex Tower 7020 contains both volatile and non-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 Tower 7020 system board.

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

Description	Reference designator	Volatility description	User accessible for external data	Remedial action (action necessary to erase data)
Embedded Flash memory in embedded controller Microchip DEC1515	U2403	The two SRAM blocks in the DEC1515 is a total of 256 KB. The DEC1515 contains a 64 KB block of ROM. EC uses 1 MB with SPI ROM by G3 sharing mode.	No	N/A
System BIOS	U2502/U2504	Non-volatile memory, 128 M/256 M bits (16 MB/32 MB), System BIOS and Video BIOS for basic boot operation, ePSA (on board diagnostics).	No	N/A
TPM Nuvoton NPCT760JABYX	U9101 (Nuvoton)	28 K bytes non-volatile memory is located in the TPM module.	No	N/A
System Memory – DDR5 DIMM memory	Connectors: DM1A DM2B	Volatile memory in an OFF state (see state definitions later in the text). One to two modules are populated. System memory size depends on the DIMM modules and is between 8 GB and 64 GB.	Yes	Turn off the computer
System memory SPD EEPROM	On memory DIMM(s)	Non-volatile EEPROM memory. 1024 bytes. One Device is present on each DIMM. Stores memory manufacturer data and timing information for the correct operation of system memory.	No	N/A
RTC CMOS	BATTERY	Volatile battery is backed by CMOS memory 256 bytes. Stores the CMOS information.	No	Remove the onboard Coin Cell battery
Video memory – type – see next column	UMA architecture-uses system memory	Volatile memory is in an OFF state. UMA uses the main system memory size that is allocated out of the main memory.	No	Enter S3-S5 state below
M.2 Solid-State Disk	User replaceable	Non-volatile magnetic media, various sizes in GB.	Yes	Low-level format
Hard Disk Drives	User replaceable	Non-volatile magnetic media, various sizes in GB.	Yes	Low-level format
CD-ROM/RW/ DVD/ DVD+RW/ Disk Drives	User replaceable	Non-volatile optical/magnetic media.	Yes	Low level format/erase

⚠ 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 (DDR5, 5600/5200/4800 MHz). Secondary power loss (removing the onboard coin-cell battery) destroys system data on the system configuration and time-of-day information.

