Statement of Volatility – Dell Latitude 5421

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

The Dell Latitude 5421 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 Latitude 5421 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)
SSD drive(s)	M.2 – 2280/2230	Non-Volatile magnetic media, various sizes in GB. SSD (solid state flash drive).	No	Low level format
System BIOS/EC	UC2 (32 MB)	Non-Volatile memory, Video BIOS for basic boot operation, PSA (on board diagnosis), PXE diagnosis.	No	NA
Thunderbolt EEPROM	UT7 (1 MB)	Non-Volatile memory	No	NA
LCD Panel EEDID EEPROM	Part of panel assembly	Non-Volatile memory, Stores panel manufacturing information, display configuration data	No	NA
System Memory – DDR4 memory	Two DIMM on board DDR4 memory: JDIMM1/JDIMM2	Volatile memory in OFF state (see state definitions later in text)	Yes	Power off system
RTC CMOS	PCH-UH1	Non-Volatile memory 256 bytes Stores CMOS information	No	NA
Video memory – frame buffer	For UMA platform: Using system memory For DSC platform: UV34, UV35	Volatile memory in off state. UMA uses main system memory size allocated out of main memory.	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
Security Controller Serial Flash Memory	Combine on BIOS ROM	Non-Volatile memory	No	N/A
TPM Controller	UZ4	Non-Volatile memory, 192K bits (24K bytes) ROM	No	N/A
ISH	Combine on BIOS ROM		No	N/A

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
Touch screen Embedded Flash	N/A	Non-Volatile memory	No	N/A

⚠ **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, 3200 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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