Statement of Volatility – Dell Pro Precision 5 14 PW514261

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

The Dell Pro Precision 5 14 PW514261 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 Dell Pro Precision 5 14 PW514261 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)
LCD Panel EEDID EEPROM	Part of display panel assembly	Non-volatile memory, Stores panel manufacturing information, display configuration data.	No	Not applicable
System BIOS/EC	U2401 (EC MEC5407)	Non-volatile memory, Video BIOS for basic boot operation, PSA (Pre-Boot System Assessment) onboard diagnostic, PXE (Pre-boot Execution Environment) diagnostics.	No	Not applicable
System Memory – DDR5	Integrated Memory Controller	Volatile memory in OFF state.	No	Not applicable
System Memory – SPD EEPROM	Not applicable	Non-volatile memory	No	Not applicable
RTC CMOS – BBRAM (battery backed up)	CPU1	Non-volatile memory, 256 bytes. Stores CMOS information.	No	Not applicable
Security Controller Serial Flash Memory	U401 (upsell USH board)	Non-volatile memory, 128 Mbit (16 Mbyte)	No	Not applicable
SSD drive(s)	M.2 2230, M.2 2280	Non-volatile magnetic media, various sizes in GB. SSD (solid state flash drive).	Yes	Low-level format
TPM Controller	U9101	Non-volatile memory, 328 Kbits ROM	No	Not applicable
Thunderbolt EEPROM	U7103	Non-volatile memory, 8M bits (1M bytes) flash memory Thunderbolt FW	No	Not applicable
Thunderbolt PD EEPROM	U7201	Non-volatile memory, 22 KB	No	Not applicable
Touchscreen Embedded Flash	Not applicable	Non-volatile memory	No	Not applicable
Digital PWM VR controller	PU4601	Non-volatile memory	No	Not applicable
Intel ME Firmware	Combine on BIOS ROM	Non-volatile memory, Intel ME Firmware for system configuration, security and protection	No	Not applicable
Security Controller Serial Flash Memory	Combine on BIOS ROM	Non-volatile memory	No	Not applicable
ISH	Combine on BIOS ROM	Non-volatile memory	No	Not applicable
MIPI camera FW	U504 (upsell middle board)	Non-volatile memory, 128 Mbit (16 Mbyte)	No	Not applicable

△ CAUTION: All other components on the system board lose data if power is removed from the computer. A primary power loss (such as unplugging the power cable and removing the battery) results in the loss of all user data that is stored in the memory and erases system data, including system configuration and the time-of-day information.

Power-state definitions

- **S0** state is the *working* state where the dynamic RAM is maintained and is read/write by the processor.

- **S1** state is a *low wake-up latency sleeping* state. In this state, no system context is lost (CPU or chip set) and hardware maintains all system contexts.
- **S3/Modern Standby** is called *"suspend to RAM"* state or *stand-by mode*. In this state the dynamic RAM is maintained. Dell systems will be able to go to S3 if the OS and the peripherals used in the system supports S3 state. Win10 support S3 state.
- **S4** is called *suspend to disk* or *hibernate* mode. There is no power in this state and dynamic RAM is not maintained. If the computer is commanded to enter S4, the operating system writes the system context to a non-volatile storage file and leaves appropriate context markers. When the computer returns to the working state, a restore file from the non-volatile storage can occur. The restore file must be valid. Dell computers can enter S4 if the operating system and peripherals support S3.
- **S5** is the *soft-off* state and there is no power. The operating system does not save any context to wake up the system. No data remains in any component on the system board, for example, cache or memory. The computer requires a complete boot when awakened. Since S5 is the shut off state, coming out of S5 requires power-on which clears all registers.

Table 2. Power states supported by Dell Pro Precision 5 14 PW514261

Computer model	S0	S1	S3/ Modern Standby	S4	S5
Dell Pro Precision 14 PW514261	Supported	Not supported	Supported	Supported	Supported

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