Statement of Volatility – Dell Pro Precision 5 16S PW516265

△ 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 16S PW516265 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 16S PW516265 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 panel assembly	Non-Volatile memory, Stores panel manufacturing information, display configuration data.	No	Not applicable
System BIOS/EC	U2501 U2502 U2401 (EC NPCX468DA1BX)	Non-volatile memory, video BIOS for basic boot operation, PSA (onboard diagnostics), PXE diagnostics	No	Not applicable
System Memory	SO-DIMM Memory DIMM1 DIMM2	Volatile memory in off (S5) state NOTE: See power state definitions below.	Yes	Power-off computer
Video memory – frame buffer	For UMA platform: Using system memory	Volatile memory in off state. UMA uses main system memory size allocated out of main memory.	No	Not applicable
Pro Firmware	Combine on BIOS ROM	Non-volatile memory, Intel ME firmware for system configuration, security, and protection	No	Not applicable
SSD drives	M.2-2230, M.2-2280	Non-Volatile magnetic media, various sizes in GB. SSD (solid state flash drive).	Yes	Low-level format
SFH	Combine on BIOS ROM	Non-Volatile memory	No	Not applicable
Camera ISP Flash ROM	On Camera module	Non-Volatile memory	No	Not applicable
Digital APU power SVI3 Controller	PU4601	Non-volatile memory. Digital IMVP9.3 controller	No	Not applicable
Touch screen Embedded Flash	Not applicable	Non-Volatile memory	No	Not applicable
TPM Controller	U9101	Non-Volatile memory	No	Not applicable
Security Controller Serial Flash Memory	UK251 (USH daughter board)	Non-Volatile memory, 128 Mbit (16Mbyte)	No	Not applicable
Fingerprint Sensor	Module	USB interface of embedded Flash memory	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 (processor or chip set) and hardware maintains all system contexts.
- **Modern Standby** is a standby mode state that is different from S3 mode. In this state, the dynamic RAM is maintained.
- **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 16S PW516265

Computer model	S0	S1	Modern standby	S4	S5
Dell Pro Precision 5 16S PW516265	Supported	Not supported	Supported	Supported	Supported

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