Statement of Volatility – Dell Pro Precision 5 16S PW516260

△ 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 PW516260 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 PW516260 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)
Embedded Flash in embedded controller MEC5507	UE1	384KB Code/Data SRAM 320KB Code/64KB Data optimized for performance	No	Not applicable
LCD Panel EEDID EEPROM	Part of panel assembly	Non-Volatile memory, Stores panel manufacturing information, display configuration data.	No	Not applicable
System BIOS/EC	UC2 (16MB) UC20 (32MB)	Non-Volatile memory, System BIOS, embedded controller and Video BIOS for basic boot operation, PSA (on board diags), PXE diags.	No	Not applicable
System Memory – LPDDR5x (LPCAMM2)	2-channel memory: JCAMM1 (LPCAMM2)	Volatile memory in OFF state. System memory size will depend on LPDDR5x ,32Gb/64Gb/128Gb (X64) per package.	No	Not applicable
RTC CMOS – BBRAM (battery backed up)	UC1	Non-Volatile memory, 256 bytes. Stores CMOS information.	No	Not applicable
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, 16MB+32MB, Intel ME firmware for system configuration, security, and protection	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
Touch screen Embedded Flash	Part of panel assembly	Non-Volatile memory	No	Not applicable
Touch Pad	Module	I2C interface of embedded Flash memory	No	Not applicable
Sensor Hub	Combine on BIOS ROM	Non-Volatile memory.	No	Not applicable
TPM Controller	UK101	Non-Volatile memory, 32K Bytes	No	Not applicable
PD Controller FW	Combine on BIOS ROM	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
CPU Power IMVP9.3 Controller	PUZ001	Non-Volatile memory, 512byte Digital CPU power IMVP controller	No	Not applicable
Camera ISP Flash ROM	On Camera module	Non-Volatile memory, 64Kb	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.

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Power-state definitions

- **S0** state is the *working* state where the dynamic RAM is maintained and is read/write by the processor.
- **Modern Standby** is a *standby-mode* state where 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 PW516260

Computer model	S0	Modern Standby	S4	S5
Dell Pro Precision 5 16S PW516260	Supported	Supported	Supported	Supported

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