

Statement of Volatility - Dell Pro 16 Plus PB16255

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

The Dell Pro 16 Plus contains both volatile and non-volatile (NV). 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 Dell Pro 16 Plus 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 MEC5	U2401	384 KB code/data SRAM 320 KB code/64 KB data optimized for performance.	No	Not applicable
LCD panel EEDID EEPROM	Part of display-panel assembly	Non-volatile memory. Stores panel manufacturing information and display configuration data.		Not applicable
System BIOS/EC	U2501 (64 MB), U2502 (2 MB)	Non-volatile memory. System BIOS, embedded controller, and video BIOS for basic boot operation, PSA onboard diags and PXE diags.	No	Not applicable
System memory – LPDDR5x onboard memory	Two-channel onboard memory: RAM1, RAM2, RAM3, and RAM4	Volatile memory in OFF state. System memory size depends on LPDDR5x, 32 GB/64 GB/128 GB (X64) per package.	No	Not applicable
RTC CMOS – BBRAM (battery backed up)	CPU1	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 that is allocated out of main memory.	No	Not applicable
Pro firmware	Embedded in system BIOS U2501	Non-volatile memory. 64 MBx1, AMD ME firmware for system configuration, security, and protection.	No	Not applicable
SSD drives	M.2 2230 support	Non-volatile magnetic media, various sizes in GB. Solid state drive (SSD).	Yes	Low-level format
Touchscreen embedded flash	Part of display-panel assembly	Non-volatile memory.	No	Not applicable
SFH	Combine on BIOS ROM	Non-volatile memory.	No	Not applicable
TPM controller	U9101	Non-volatile memory, 384 Kbits.	No	Not applicable
PD controller firmware	Embedded in system BIOS U2502	Non-volatile memory.	No	Not applicable
Security controller serial flash memory	USH daughterboard	Non-volatile memory, 128 Mbit (16 Mbyte).	No	Not applicable
Digital APU power SVI3 controller	PU4601	Non-volatile memory, 512 bytes. Digital APU power SVI3 controller. Total 162 index, each index 0/4/8 bits.	No	Not applicable
Touchpad	Module	I2C interface of embedded flash memory.	No	Not applicable
Fingerprint sensor	Module	USB interface of embedded flash memory.	No	Not applicable
Camera ISP flash ROM	On camera module	Non-volatile memory, 64 Kb.	No	Not applicable

All other components on the system board lose data if power is removed from the computer. Primary power loss (unplugging the power cable and removing the battery) destroys all user data on the memory (LPDDR5x, 7500 MT/s), system data on the system configuration and time-of-day information.

In addition, to clarify memory volatility and data retention in situations where the computer is put in different ACPI power states the following is provided (those ACPI power states are S0, Modern standby, S4, and S5):

- 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 that is different from S3 mode. In this state, the dynamic RAM is maintained.
- S4 is called "suspend to disk" state or "hibernate" mode. There is no power. In this state, the 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 leave appropriate context markers. When the computer is coming back to the working state, a restore file from the non-volatile storage can occur. The restore file must be valid. Dell computers can go to S4 if the operating system and the peripherals support S4 state. Windows 7 and Windows 8 support S4 state.
- S5 is the "soft" off state. There is no power. The operating system does not save any context to wake up the computer. No data will remain in any component on the system board, that is, cache or memory. The computer requires a complete boot when awakened. Since S5 is the shut off state, coming out of S5 requires turn on, which clears all registers.

The following table shows all the states that are supported by Dell Pro 16 Plus.

Table 2. ACPI power states supported by Dell Pro 16 Plus

Model number	S0	Modern standby	S4	S 5
Dell Pro 16 Plus	Yes	Yes	Yes	Yes

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