

Statement of Volatility – Dell Pro Precision 7 T1 PW7T1260

⚠ 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 7 T1 PW7T1260](#) 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 7 T1 PW7T1260](#) 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 memory in embedded controller Microchip DEC1547H-D0-I	EC1	320K bytes Code/Data SRAM (240 KB for code, 80 KB for data)	No	Not applicable
System BIOS/EC	U2501 U2504	Non-volatile memory, 256Mbits(32MB), System BIOS and Video BIOS for basic boot operation, ePSA (on board diagnostics.)	No	Not applicable
System Memory – DDR5 DIMM memory	Connectors: DIMM1, DIMM2, DIMM3, DIMM4	Volatile memory in OFF state (see state definitions later in text) One to four modules will be populated. System memory size will depend on DIMM modules and will be between 8 GB to 32 GB.	Yes	Power-off computer
System memory SPD EEPROM	On memory DIMM(s)	Non-volatile EEPROM memory. One Device present on each DIMM. Stores memory manufacturer data and timing information for correct operation of system memory.	No	Power-off computer
TPM	U9101	27600 bytes non-volatile memory located in the TPM module.	No	Not applicable
RTC CMOS	RTC	Volatile battery back-backed CMOS memory 256 bytes. Stores CMOS information.	No	Removing the coin-cell battery
Video memory – type – see next column	UMA architecture-uses system memory	Volatile memory in off state. UMA uses main system memory size allocated out of main memory.	No	Enter MODS-S5 state below
M.2 solid state drive	User replaceable	Non-volatile magnetic media, various sizes in GB.	Yes	Low level format
Hard drive	User replaceable	Non-volatile magnetic media, various sizes in GB.	Yes	Low level format
CD-ROM/RW/ DVD/ DVD+RW/ Diskette Drives	User replaceable	Non-volatile optical/magnetic media.	Yes	Low level format/erase

⚠ CAUTION: 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. Secondary power loss (removing the onboard coin-cell battery) destroys system data on the system configuration and 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.
- **MODS** is called *modern standby*. In this state the dynamic RAM is maintained. Dell systems will be able to go to MODS if the operating system and the peripherals used in the system supports MODS.
- **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.
- **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 7 T1 PW7T1260

Computer model	S0	S1	MODS	S4	S5
Dell Pro Precision 7 T1 PW7T1260	Supported	Not supported	Supported	Supported	Supported