Statement of Volatility – Dell Latitude 7290

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

The Dell Latitude 7x90 contains both volatile and non-volatile (NV) components. Volatile components lose their data immediately after power is removed from the component. Non-volatile (NV) components continue to retain their data even after power is removed from the component. The following NV components are present on the Latitude 7x90 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 prevent loss of data)
SSD drive(s)	M.2 – 2280 M.2 – 2230	Non Volatile magnetic media, various sizes in GB. SSD (solid state flash drive).	Yes	Low level format
System BIOS	UC5	Non Volatile memory, 128Mbit (16MB), System BIOS and Video BIOS for basic boot operation, PSA (on board diags), PXE diags., Intel ME firmware for system configuration, security and protection and ISH firmware.	No	NA
Embedded Flash in embedded controller MEC5105	UE1	64K byte of embedded boot ROM for embedded controller boot code which loads an executable code image into SRAM.	No	NA
Alpine Ridge NVM Flash	UT2	Non Volatile memory for Intel Alpine Ridge NVM flash	No	NA
USB-Type C PD	UT6	Non Volatile memory for USB type-C PD F/W	No	NA
LCD Panel EEDID EEPROM	Part of panel assembly	Non Volatile memory, Stores panel manufacturing information, display configuration data	No	NA
System Memory – DDR4 memory	For 7290/7390: One SODIMM-JDIMM1 For 7490: Two SODIMMs JDIMM1 & 2	Volatile memory in OFF state (see state definitions later in text) One module must be populated. System memory size will depend on SODIMM module and must be between 4 GB and 16 GB.	Yes	Power off system
RTC CMOS	UC1 (PCH)	Non Volatile memory 256 bytes Stores CMOS information	No	NA
Video memory – frame buffer	For UMA platform: Using	Volatile memory in off state.	No	Power off system

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
	system memory	UMA uses main system memory size allocated out of main memory.		
Intel ME Firmware	UC5	Non Volatile memory, Intel ME firmware for system configuration, security and protection	No	N/A
Security Controller Serial Flash Memory	U1 (up-sell USH daughter board)	Non Volatile memory, 32 Mbit (4Mbyte)	No	N/A
TPM Controller	UZ12	Non Volatile memory, 192K bits (24K bytes) ROM	No	N/A
Camera Embedded Flash	N/A	Non Volatile memory	No	N/A
Touch screen Embedded Flash	N/A	Non Volatile memory	No	N/A

⚠ **CAUTION: All other components on the system board lose data if power is removed from the system. Primary power loss (unplugging the power cord and removing the battery) destroys all user data on the memory (DDR4, 2133/2400 MHz). Secondary power loss (removing the on-board coin-cell battery) destroys system data on the system configuration and time-of-day information.**

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