Statement of Volatility – Dell Vostro 3010

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

The Dell Vostro 3010 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 Vostro 3010 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)
Embedded Flash memory in embedded controller ITE IT8732F	U10	Non Volatile: None Volatile: 4KB SRAM for code/data space	No	N/A
System BIOS	SPI1	Non Volatile memory, 32 Mbit (4 MB), System BIOS and Video BIOS for basic boot operation, PSA (on board diags), PXE diags.	No	N/A
Video BIOS	U37	Non Volatile memory, 8 Mbit (1 MB), Video BIOS for GPU boot operation and information storage.	No	N/A
External Serial Flash Memory	U7	Non Volatile memory, 512Kbit, Flash for EC SIO code/data storage.	No	N/A
External EPROM	U25	Non Volatile memory, 64Kbit, EEPROM for DP Converter code and panel EDID storage.	No	N/A
Video memory – type – see next column	UMA architecture- uses system DDR3.	Volatile memory in off state. UMA uses main system memory size allocated out of main memory.	No	Enter S3-S5 state below.
Video memory – type – DDR3 SDRAM	GPU architecture- MEM1, MEM2, MEM3, MEM4	Volatile memory in off state. Four embedded SDRAM must be populated. System memory size will be 256MB each and 1GB in total.	No	Enter S3-S5 state below.

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
System Memory – DDR3 memory	Connectors: DIMM1, DIMM2	Volatile memory in OFF state **NOTE:** See state definitions later in text One to Two modules must be populated. System memory size will depend on DIMM modules and must be between 2 GB and 8 GB.	Yes	Power off system
System memory SPD EEPROM	On memory DIMM(s) – one, two, present	Non-Volatile EEPROM memory. 2Kbit (256 bytes) One Device present on each DIMM. Stores memory manufacturer data and timing information for correct operation of system memory	No	N/A
RTC CMOS	CPU1	Volatile Battery back-backed CMOS memory 256 bytes Stores CMOS information	No	Removing the on board Coin Cell battery
Ethernet Controller Embedded Efuse REALTEK RTL8151GD	U16	256 bytes in non-volatile memory, which stores driver information and the system MAC address.	No	N/A
Hard drive(s)	User replaceable - one or two.	Non Volatile magnetic media, various sizes in GB. May also be SSD (solid state flash drive).	Yes	Low level format
CD-ROM/RW/ DVD/ DVD+RW/ Diskette Drives	User replaceable	Non Volatile optical media.	Yes	Low level format/erase
△	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			

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
		the memory (DDR3, 1067 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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