



Statement of Volatility – Dell LATITUDE 12 RUGGED EXTREME

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

The Dell LATITUDE 12 RUGGED EXTREME 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 12 RUGGED EXTREME 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 in embedded controller MEC5075	U38	256K and 2K byte of embedded Flash memory for embedded controller BIOS code, asset tag and BIOS passwords	No	N/A
Panel EEDID EEPROM	Part of panel assembly	Non Volatile memory 64K bytes. Stores panel manufacturing information, display configuration data	No	Part of panel assembly
System BIOS	U1,U2	Non Volatile memory, 64Mbit (8MB), 32Mbit (4MB) System BIOS and Video BIOS for basic boot operation, PSA (on board diags), PXE diags.	No	N/A
System Memory – DDR3L memory	Connectors JDIMM1 and JDIMM2	Volatile memory in OFF state (see state definitions later in text) One or both modules will be populated. System memory size will depend on SoDIMM modules and will be between 1GB and 8GB	Yes	Power off system
System memory SPD EEPROM	On System memory SODIMM(s) – one or two present	Non-Volatile memory 2Kbit (256 bytes). One device present on each SoDIMM. Stores memory manufacturer data and timing information for correct operation of system memory.	No	N/A
RTC CMOS – BBRAM (battery backed up)	UC1	Non Volatile memory 256 bytes. Stores CMOS information	No	N/A
Video memory – frame buffer	UMA architecture-uses system DDR3L.	UMA uses main system memory size allocated out of main memory.	No	N/A
DP hub FW	U7	Non Volatile memory for DP hub Firmware	No	N/A
TPM Controller	U25	Non Volatile memory, 2K bits (256 bytes) ROM	No	N/A

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
Hard drive	User replaceable	Non Volatile SSD (solid state flash drive), various sizes in GB	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 the memory (DDR3L, 1333/1600MHz). 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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