




Statement of Volatility – Dell Latitude 5420 Rugged

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

The Dell Latitude 5420 Rugged 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 Dell Latitude 5420 Rugged system boards.

Table 1. List of Volatile, 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)
RTC CMOS – BBSRAM (battery backed up)	UCPU1	Non-Volatile memory, 256 Bytes Stores Real Time Clock & CMOS information	No	N/A
System BIOS	U2800	Non-Volatile memory, 128 Mbit (16 MB), System BIOS and Video BIOS for basic boot operation, PSA (on board diags), PXE diags, LOM	No	N/A
USB Type-C PD Controller	U3202	Non Volatile memory, 8Mbit Stores Type-C PD Controller application code	No	N/A
HDMI Video	U4202	Non Volatile memory, 2Mbit Stores HDMI Converter application code	No	N/A
Discrete GFX Video BIOS	U6901	Non-Volatile memory, 4Mbit Stores Discrete GFX application code and video BIOS	No	N/A
Video Memory – Frame Buffer	U7401, U7402, U7501, U7502	Volatile memory in off state 2 or 4 GB GDDR5 for discrete graphics systems	No	N/A
System Memory – DDR4 Memory	Two SODIMM connectors: JDIM1,2	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 SODIMM	Yes	Power off system

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
		modules and must be between 4 GB and 32 GB		
System memory SPD EEPROM	On System memory SODIMM(s) : 1-2 present	Non-Volatile memory 512 Bytes Stores memory manufacturer data and timing information for correct operation of system memory	No	N/A
Panel EEDID EEPROM	Part of panel assembly	Non-Volatile memory, 512 Bytes	No	N/A, Part of panel assembly
Security EEPROM	Security Board, U4701	Non-Volatile memory, 32Mbit Application code for security controller	No	N/A
Hard drive(s)	User replaceable: One present	Non Volatile magnetic media, various sizes in GB. May also be SSD (solid state flash drive)	Yes	Low level format
PCMCIA EEPROMs	PCMCIA Board, U7, U11	Non-Volatile memory, 2Kbit Application code for PCMCIA controllers	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, 2400 MHz). Secondary power loss (removing the on-board coin-cell battery) destroys system data on the system configuration and time-of-day information.				