

Statement of Volatility – Dell XPS 16 9640

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

The Dell XPS 16 9640 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 XPS 16 9640 system board.

Table 1. List of non-volatile & volatile components on system board

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (action necessary to erase data)
SSD drive(s)	SSD1 support M.2 – 2230 M.2 – 2280	Non-volatile magnetic media, various sizes in GB. SSD (solid state flash drive).	No (If the User opens the chassis, that will be Yes)	Low level format
System SoC/BIOS/EC Firmware	BIOS1	PCH/ME/ISH firmware for system configuration, security, and protection BIOS: 512 Mbit (64 MB), Non-volatile memory, Video BIOS for basic boot operation, PSA (on board diags.) PXE diags. EC: 384KB Code/Data SRAM.	No	N/A
LCD Panel EDID	Part of panel assembly	Non-volatile memory, Stores panel manufacturing information, display configuration data	No	N/A
System Memory – LPDDR5x memory	On-board RAM1~RAM4	Volatile memory in OFF state (See state definitions later in text)	No	Power off system
Video memory – frame buffer	For DSC mode using DGFF VRAM: (6GB/8GB GDDR6)	Volatile memory in OFF state. 6 GB GDDR6 for Nvidia RTX-4050 8 GB GDDR6 for Nvidia RTX-4060 8 GB GDDR6 for Nvidia RTX-4070	No	Power off system
RTC CMOS	Inside battery pack BATT1 (RTC pin)	Volatile memory 256 bytes Stores CMOS information	No	N/A
GPU Firmware	U7902	Non-volatile memory, 16 Mbit (2 MB), GN21 graphic operation	No	N/A
TPM Controller	U9102	Non-volatile memory, 32 K bytes ROM (NUVOTON NPCT760JABYX) Non-Volatile memory, 43 K bytes ROM (ST33TPHF2XSPI)	No	N/A
PD Controller	U7201 U9401	64 KB of embedded flash memory for PD controller	No	N/A
Thunderbolt	U7103, U7109 U9302, U9307	Non-volatile memory, 8 Mbit (1 MB), Thunderbolt/Type-C operation	No	N/A
Camera MCU	U501	128 KB of embedded flash memory for Camera controller	No	N/A
Clover Falls (CVF)	U401	Includes 64 KB of TCM ROM	No	N/A
TFR	U1	128 KB embedded flash memory for TFR	No	N/A

⚠ **CAUTION: All other components on the system board erase 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 (LPDDR5x/ GDDR6). 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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