DELL Technologies

Statement of Volatility – Precision 5690

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

The Precision 5690 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 Precision 5690 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 erase data)
SSD drive(s)	User replaceable	Non-volatile memory, various sizes in GB. SSD (solid state flash drive).	No	Low level format
Embedded flash in embedded controller MEC5107	UE1	384 KB of embedded Flash memory (320KB code + 64KB data)	No	NA
System BIOS/EC	UC2 (64 GB)	Non-volatile memory, system BIOS, embedded controller and video BIOS for basic boot operation, PSA (onboard diagnosis), PXE diagnosis.	No	NA
Thunderbolt EEPROM	UTS2	Non-volatile memory (1 MB)	No	NA
System memory – LPDDR5x memory	On Board LPDDR5x	Volatile memory in OFF state System memory size will depend on LPDDR5x, 16 GB, 32 GB, 64 GB	No	Power off system
GPU VRAM frame buffer DGM	For UMA mode sharing system DDR5 For DSC mode using DGM VRAM	Volatile memory in off state. UMA graphics mode: Volatile memory in off state. UMA mode uses main system memory size allocated out of main memory. Discrete graphics mode: NVIDIA GeForce RTX 4090 Laptop GPU, 16GB GDDR6 NVIDIA RTX 5000 Ada Generation Laptop GPU, 16GB GDDR6 NVIDIA RTX 4000 Ada Generation Laptop GPU, 12GB GDDR6 NVIDIA RTX 3500 Ada Generation Laptop GPU, 12 GB GDDR6 NVIDIA RTX 2000 Ada Generation Laptop GPU, 8 GB GDDR6 NVIDIA RTX 1000 Ada Generation Laptop GPU, 6GB GDDR6		
RTC CMOS	UC1	Non-volatile memory 256 bytes stores CMOS information	No	Remove the main battery
Type-C PD FW	UT11/UT18	I2C interface of embedded Flash memory	No	N/A
Touch pad	Module	I2C interface of embedded Flash memory	No	N/A

Security controller Serial Flash Memory	U1 (up-sell USH daughter board)	Non-volatile memory, 128 Mbit (16 Mbyte)	No	N/A
TPM Controller	U712	Non-volatile memory, 384K bits	No	N/A
CVF	UCVF1	eSPI interface of embedded Flash memory	No	N/A
LCD Panel EEDID EEPROM	Part of panel assembly	Non-volatile memory, Stores panel manufacturing information, display configuration data 256 bytes	No	NA
Touch screen Embedded Flash	N/A	Non-volatile memory	No	N/A
Digital IMVP9.1 controller	PUZ1	Non-volatile memory, 1736 bits Digital IMVP9.1 controller (Total 238 index, each index 0 /4 /8 bits.)	No	N/A
Camera ISP Flash ROM	On camera module (upsell)	Non-volatile memory, 4M-bits/8M-bits by different camera module option	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. Secondary power loss (removing the on-board coin-cell battery) destroys system data on the system configuration and time-of-day information.**