

Statement of Volatility – Dell Precision 5680

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

The Dell Precision 5680 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 Dell Precision 5680 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)
Embedded Flash in embedded controller MEC5200	UE1	384 KB Code/Data SRAM 320 KB code/64 KB Data optimized for performance	No	N/A
Panel EEDID EEPROM	Part of panel assembly	Non-volatile memory, FHD+ 256 bytes, QHD+ 256 bytes.	No	Part of panel assembly
System BIOS	UC2	Non-volatile memory, 64 MB * 1 System BIOS and Video BIOS for basic boot operation, PSA (on board diags), PXE diags.	No	N/A
System Memory – LPDDR5 LPDDR5x memory	On board DRAM+ UD1/UD2/ UD3/UD4	Volatile memory in OFF state System memory size will depend on LPDDR5 /5x, 32 GB/ 64 GB, 128 GB (x32) per package	No	N/A
GPU VRAM DGFF MB1	UV16/UV17/UV18/UV19 UV20/UV21/UV22/UV23	Volatile memory in OFF state 16 GB GDDR6 SGRAM 32 M x 16 Bits x 16 Banks x 2 ch./364 M x 8 Bits x 16 Banks x 2 ch.	No	N/A
GPU VRAM DGFF MB2	UV3/UV4/UV6/UV57	Volatile memory in OFF state 16Gb GDDR6 SGRAM	No	N/A
System memory SPD EEPROM	Part of memory module assembly	Non-volatile memory, Stores memory manufacturer data and timing information into BIOS code.	No	N/A
Hard drive(s)	SSD1/VPU SSD2	2230 M.2 type SSD (PCIe interface)	Yes	Low level format
Card Reader	uSD 4.0 Card reader controller F/W UR1	PCIe interface of embedded Flash memory	No	N/A
Touch screen Embedded Flash	Part of panel assembly	I2C interface of embedded Flash memory	No	Part of panel assembly
Accelerometer + Gyro LIS2DW12TR	U10	I2C interface of embedded Flash memory	No	N/A
ACC LSM6DSOISTR (CVF)	U733	I2C interface of embedded Flash memory	No	N/A
TPM 2.0 ST33HTPH2X32AHD8 ST33HTPH2X32AHE4 NPCT750JADYX NPCT760JABYX	U712	SPI interface of embedded Flash memory	No	N/A

MCU ATSAMD21G17D-MUT	U717	USB interface of embedded Flash memory	No	N/A
CVF CLOVER_FALLS	UCVF1	eSPI interface of embedded Flash memory	No	N/A
PD CYPD8225-97BZXIT CYPD8125-48LDXIT	UT11 UT18	I2C interface of embedded Flash memory	No	N/A
Hayden Bridge TBT Re-Timer	URT4/URT3	I2C interface of embedded Flash memory	No	N/A
SPI Flash (Hayden Bridge)	UTS2	Non-volatile memory. 1.8 V 8 M- BIT Flash memory	No	N/A
SPI Flash (USH)	U1	Non-volatile memory. 128 Mbit (16 MB) for CV3 F/W flash.	No	N/A
BCM58202 (USH)	U2	1 M of on-chip scratch memory. 256 K on-chip boot ROM	No	N/A
SPI Flash (DGFF MB1/DGFF MB2)	UV12	Non-Volatile memory.1.8 V 16 M-BIT. Flash memory	No	N/A
SPI Flash (DG2)	UV2	Non-Volatile memory.1.8 V 64 M-BIT. Flash memory	No	N/A
Fingerprint Sensor	Module	USB interface of embedded Flash memory	No	N/A
Touchpad	Module	I2C interface of embedded Flash memory	No	N/A
Camera Sensor	Module	I2C interface of embedded Flash memory	No	N/A
Digital IMVP9.1 controller	PUZ1	Non-Volatile memory, 255 KB Digital IMVP9.1 controller	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 (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.