

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 |

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|--|--------------|---|----|-----|
| 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.