



Statement of Volatility – Dell Precision Mobile Workstation M4800

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

The Dell Precision Mobile Workstation M4800 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 Precision Mobile Workstation M4800 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 prevent loss of data) |
|---|---|---|-----------------------------------|--|
| Embedded Flash in embedded controller MEC5075 | U51 | 288 KB of embedded Flash memory for keyboard controller BIOS code, asset tag and BIOS passwords. 4K Boot block protection. | No | N/A |
| Panel EEDID EEPROM | Part of panel assembly | Non Volatile memory, 512 bytes. | No | Part of panel assembly |
| System BIOS | U52(8 MB) U53(4 MB) | Non Volatile memory, 32 Mbit (4 MB) and 64 Mbit (8 MB), System BIOS and Video BIOS for basic boot operation, PSA (on board diags), PXE diags. | No | N/A |
| Video BIOS | On MXM cards (nVidia N15X or AMD): | Non Volatile memory, 512 kbit (64 KB), Graphics system BIOS. | No | N/A |
| System Memory – DDR3L memory | Four SODIMM connectors : JDIMM1,2,3, 4 | <p>Volatile memory in OFF state</p> <p>NOTE: See state definitions later in text.</p> <p>Two to four modules must be populated. System memory size will depend on SODIMM modules and must be between 2 GB and 32 GB.</p> | Yes | Power off system |
| System memory SPD EEPROM | On memory SODIMM(s) – 2-4 | <p>Non Volatile memory 512 Bytes.</p> <p>Stores memory manufacturer data and</p> | No | N/A |

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|---|---|--|-----------------------------------|--|
| | present | timing information for correct operation of system memory. | | |
| RTC CMOS – BBRAM (battery backed up) | CMOS1 | Non Volatile memory, 64 Bytes. Stores CMOS information. | No | |
| Video memory – frame buffer | On MXM cards (nVidia N15X or AMD Saturn): | Volatile memory in off state. 4/8 GB GDDR5 for nVidia N15EQ1/EQ3/EQ5 discrete graphics systems. 2 GB GDDR5 for AMD Saturn discrete graphics systems. | No | N/A |
| LOM Serial Flash Memory | UH1 | Non Volatile memory, built in PCH for MAC address, LED mode, WOL settings, PXE settings. | No | N/A |
| Hard drive(s) | User replaceable - one or two. | Non Volatile magnetic media, various sizes in GB. May also be SSD (solid state flash drive) and Hybrid HDD. | Yes | Low level format |
| CD-ROM/RW/ DVD/ DVD+RW/ Diskette Drives | User replaceable | Non Volatile optical media. | Yes | Low level format/erase |
| Internal ROM for EEDID | U23 | Non Volatile, built in RTD2136R, eDP to LVDS converter for EDID | 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 (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.

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