

# Statement of Volatility – Dell Pro Max 16 Plus MB16250

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

The Dell Pro Max 16 Plus MB16250 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 Pro Max 16 Plus MB16250 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) |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------|
| LCD Panel EEDID EEPROM                  | Part of panel assembly                                                                                             | Non-volatile memory stores panel manufacturing information. Displays configuration data.                                                                                                                                                                                                                                                                                                                                                                                          | No                                | Not applicable.                                  |
| System BIOS/ME/ISH                      | UH3                                                                                                                | Non-volatile memory, 512 Mb (64 MB) System BIOS, embedded controller, and video BIOS for basic boot operation, PSA (onboard diagnostics), PXE diagnostics.                                                                                                                                                                                                                                                                                                                        | No                                | Not applicable.                                  |
| System Memory – DDR5 memory             | Option1: CAMM2 DC connector.<br><br>Option2: CAMM2 SC connector.<br><br>Option2: Two SODIMM connectors: JDIMM1, 2. | Volatile memory in off (S5) state.<br><br><b>NOTE:</b> See power-state definitions below.<br><br>One to two modules must be populated. System memory size depends on option up to 256 GB.                                                                                                                                                                                                                                                                                         | No                                | Turn off the computer.                           |
| System memory – SPD EEPROM              | On System memory CAMM2/SODIMM(s) JDIMM1, 2 and CAMM2 module.                                                       | Non-volatile memory, 1024 bytes (1 MB).<br><br>Stores memory manufacturer data and timing information for correct operation of system memory.                                                                                                                                                                                                                                                                                                                                     | No                                | Not applicable.                                  |
| RTC CMOS                                | UH1                                                                                                                | Non-volatile memory, Non-volatile memory, 256 bytes.<br><br>Stores CMOS information.                                                                                                                                                                                                                                                                                                                                                                                              | No                                | Not applicable.                                  |
| Video memory – frame buffer             | For Switchable Graphics (SG) mode, sharing system DDR5.<br><br>For DSC mode using DGFF VRAM                        | Volatile memory in off state. SG mode uses main system memory size that is allocated out of main memory.<br><br>Discrete graphics mode:<br><br>Volatile memory in off state. SG mode uses main system memory size that is allocated out of main memory.<br><br>Discrete graphics mode:<br><br>NVIDIA® RTX™ Pro 1000 8 GB GDDR7<br>NVIDIA® RTX™ Pro 2000 8 GB GDDR7<br>NVIDIA® RTX™ Pro 3000 12 GB GDDR7<br>NVIDIA® RTX™ Pro 4000 16 GB GDDR7<br>NVIDIA® RTX™ Pro 5000 24 GB GDDR7 | No                                | Enter S3-S5 state.                               |
| Security Controller Serial Flash Memory | UK251 (upsell USH daughter board)                                                                                  | Non-volatile memory, 128 Mb (16 MB).                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                | Not applicable.                                  |
| SSD drives                              | User replaceable                                                                                                   | Non-volatile magnetic media, various sizes in GB. May also be SSD (solid state flash drive).                                                                                                                                                                                                                                                                                                                                                                                      | Yes                               | Low-level format.                                |

|                                              |                  |                                                                                                            |    |                 |
|----------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------|----|-----------------|
| TPM controller                               | UK101            | Non-volatile memory, 328 Kbits ROM.                                                                        | No | Not applicable. |
| Type-C PD firmware embedded in PD controller | UT20, UT22       | 128 KB of embedded flash memory for PD controller                                                          | No | Not applicable. |
| Thunderbolt controller firmware              | UT9, UT4         | Non-volatile memory, 16 Mb (2 MB), and 8 Mb (1 MB), Thunderbolt/Type-C operation                           | No | Not applicable. |
| Digital IMVP9.2 controller                   | PUZ1             | Non-volatile memory, 1204 bits. Digital IMVP9.2 controller.<br><br>Total 162 index, each index 0/4/8 bits. | No | Not applicable. |
| Camera ISP Flash                             | On camera module | Non-volatile memory, 4 Mb/8 Mb by different camera module option.                                          | No | Not applicable. |

**⚠ CAUTION: All other components on the system board lose data if power is removed from the computer. Primary power loss (unplugging the power cable and removing the battery) destroys all user data on the memory (DDR5, 6400 MT/s at 128 GB and 6400 MT/s at 64 GB/32 GB/16 GB configuration).**

The Power states are defined as follows:

- **S0** state is the working state where the dynamic RAM is maintained and is read/write by the processor.
- **S1** state is a low wake-up latency sleeping state. In this state, no system context is lost (processor or chip set) and hardware maintains all system contexts.
- **S3** is called suspend to RAM state or stand-by mode. In this state, the dynamic RAM is maintained. Dell computers can enter S3 if the operating system and peripherals support S3.
- **S4** is called suspend to disk or hibernate mode. There is no power in this state and dynamic RAM is not maintained. If the computer is commanded to enter S4, the operating system writes the system context to a non-volatile storage file and leaves appropriate context markers. When the computer returns to the working state, a restore file from the non-volatile storage can occur. The restore file must be valid. Dell computers can enter S4 if the operating system and peripherals support S4 state.
- **S5** is the soft-off state and there is no power. The operating system does not save any context to wake up the computer. No data remains in any component on the system board, for example, cache or memory. The computer requires a complete boot when awakened. Since S5 is the shut off state, coming out of S5 requires a power-on, which clears all registers.

**Table 2. Power states supported by Dell Pro Max 16 Plus MB16250**

| Model Number                 | S0        | Modern Standby | S4        | S5        |
|------------------------------|-----------|----------------|-----------|-----------|
| Dell Pro Max 16 Plus MB16250 | Supported | Supported      | Supported | Supported |