Statement of Volatility – Dell Chromebook 3100

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

The Dell Chromebook 3100 contains both volatile and non-volatile components. Volatile components lose 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 Chromebook 3100 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 NPCX796FB	U45	1.256 KB of embedded Flash memory for keyboard controller BIOS code, asset tag and BIOS passwords.	No	N/A
Panel EEDID EEPROM	Part of panel assembly	Non-Volatile memory, 128 bytes.	No	N/A
System BIOS	U5	Non-Volatile ROM, 128 Mbit (16 MB), System BIOS and Video BIOS for basic boot operation	No	N/A
System Memory – LPDDR4 memory	On Board U20, U21, U22, U23	Volatile memory in OFF state System memory size will be 4GB only.	Yes	Power off system
RTC CMOS	U4 CPU	Non-Volatile memory, 256 Bytes. Stores CMOS information in SoC.	No	N/A
Hard drive(s)	eMMC On Board, U13	Non-Volatile memory, Only 32GB. eMMC (Embedded Multi-Media Card).	Yes	Low level format

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 (LPDDR4, 2400 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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