Statement of Volatility – Dell S2317HWi

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

The Dell S2317HWi 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 S2317HWi system board.

Table 1. List of Non-Volatile Components on System Board

System EEPROM and (DP EEPROM)	ST 24C16
Size	16Kbit
Type [e.g. Flash PROM, EEPROM]	EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	OSD setting: Yes EDID: No
Purpose	Storage of system setting (OSD) / Storage of DP EDID
How is data input to this memory?	Control the OSD menu and change OSD setting(ex. Brightness, contrast, color setting) and the setting will be stored into system EEPROM
How is this memory write protected?	Software write protected

VGA EDID EEPROM	ST 24C02
Size	2Kbit
Type [e.g. Flash PROM, EEPROM]	EEPROM
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	Storage of HDMI EDID
How is data input to this memory?	Writing EDID requires a customized EDID tool and a special HDMI cable.
How is this memory write protected?	Hardware and software write protected

Flash ROM	MXIC MX25L40
Size	4 Mbit
Type [e.g. Flash PROM, EEPROM]	Serial flash memory
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	To store firmware
How is data input to this memory?	Loading flash memory requires a vendor-provided tool and firmware
How is this memory write protected?	Software write protected
NAND Flash(eMMC)	SAMSUNG KLM4G1FEPD-B031
Size	4G Byte
Type [e.g. Flash PROM, EEPROM]	NAND flash memory
Volatility	Non-volatile
Can user programs or operating system write data to it during normal operation?	Wi-Fi setting: Yes O.S: No
Purpose	To store O.S image
How is data input to this memory?	Loading eMMC memory requires a O.S download tool and software
How is this memory write protected?	No write protect mechanism
SDRAM	Hynix H9HKNNNBTUMUBR-NLH
Size	16 Gbit (x16, 4 Channel)
Type [e.g. Flash PROM, EEPROM]	LPDDR4-SDRAM
Volatility	Volatile
Can user programs or operating system write data to it during normal operation?	No
Purpose	To storage data or program for CPU temporary
How is data input to this memory?	Data is received by CPU and processed in SDRAM.
How is this memory write protected?	No write protect mechanism